Industrial PC

Panel PC

Numero 48
2019/2020

EPC - Entry-level Panel PC

I Panel PC Fanless EXOR adottano un concetto all-in-one che integra un computer single board, un pannello LCD TFT con retroilluminazione a LED e uno schermo tattile user-friendly in un contenitore IP65 leggero e compatto.

Progettato per essere una piattaforma di elaborazione industriale flessibile e affidabile, ciascun Panel PC è un computer compatto, altamente integrato e pronto per il collegamento in rete e con una connettività I/O eccezionale. Questi computer per macchine di livello industriale sono progettati per l'utilizzo in qualsiasi ambiente industriale leggero.

Panoramica

Tutti i prodotti sono disponibili in un'ampia e flessibile gamma di configurazioni. Potrete ottenere il prodotto che più si adatta alle vostre esigenze.

Tutti i prodotti hanno una robusta costruzione meccanica.

I prodotti hanno diverse possibilità di configurazione per quanto riguarda CPU, RAM, disco e sistema operativo.

I PC offerti da EXOR International sono la piattaforma ideale per l'esecuzione di applicazioni basate su JMobile PC Runtime.

Una applicazione HMI runtime basata su JMobile ottimizzata per la potente piattaforma hardware di un PC e' disponibile per tutti i casi in cui una soluzione HMI embedded si rivela insufficiente.

eTOP-EPC0840T - Dati Tecnici

Panel
- LCD size: 8", 4:3
- Resolution: SVGA 800 x 600
- Luminance: 400 cd/m²
- Contrast ratio: 500
- LCD color: 262K
- Viewing angle: 50(U), 70(D), 70(L), 70(R)
- Backlight: LED

Touch screen
- 5 -wire resistive (flush panel type)
- Touch light transmission: 82%
- Touch interface: USB

System
- CPU: on-board Intel® Atom™ dual core processor E3826, 1.46GHz, 1M L2 cache
- BIOS: AMI BIOS
- System memory: 1x 204-pin DDR3L SO-DIMM socket, 2GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device:
- 1 x external locked CFast socket
- 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature, and voltage
- Expansion: 1 x mini-PCIe socket1 (support optional Wi-Fi, 3.5G module or fieldbus card)

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 3 x USB 2.0; 1 x USB 3.0
- Power switch
- Remote power switch
- Reset button
- COM #1: RS232/422/485
- COM #2: RS232/422/485
- Fieldbus: (protocol interface optional)

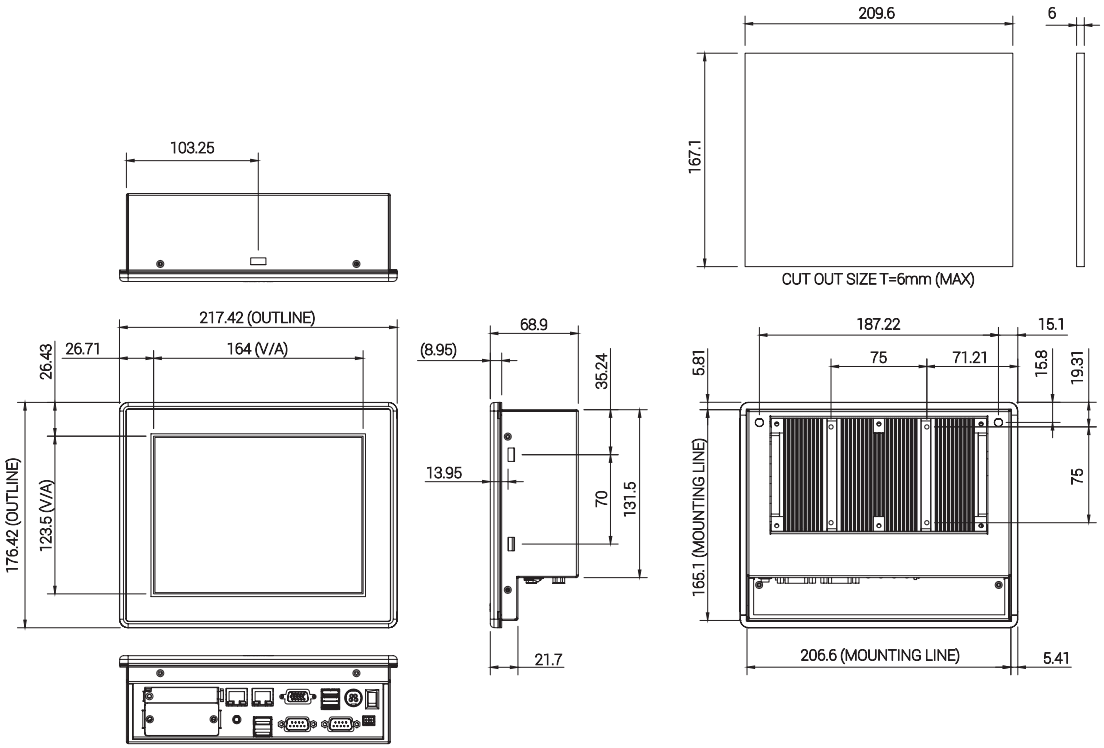
Audio
- HD codec: realtek ALC886-GR
- Audio interface: Line-out audio jack

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone black
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 75mm x 75mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
- IEC 68 2-64 (w/ HDD)
- 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
- 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
- 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
- IEC 68 2-27
- HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing limits to be at 90% RH at max 50°C
- Dimension: 217.4x176.4x68.9mm
- Weight: 2.3Kg

Certifications
- CE approval
- FCC Class A

OS Support Lists
- Windows 10 IoT 32bit/64 bit
- Windows 7 32-bit/64-bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-EPC0840T	+71EPC0840T	8" TFT SVGA 4:3 Flush Panel PC with Intel® Atom™ E3826, 1.46GHz,Touch Screen, 2GB DDR3L, 4x USB, 2x COM and VGA

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eTOP-EPC1240T - Dati Tecnici

Panel
- LCD size: 12.1", 4:3
- Resolution: SVGA 800 x 600
- Luminance: 500cd/m2
- Contrast ratio: 700
- LCD color: 16.7M
- Viewing angle: 65 (U), 75 (D), 80 (L), 80 (R)
- Backlight: LED

Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 80%
- Interface: USB

System
- CPU: on-board Intel® Celeron® Quad Core processor J1900, up to 2.42GHz, 2M L2 cache
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device: 1 x External locked CFast socket,1 x Hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2 x USB 2.0, 1 x USB 3.0
- Power switch
- Reset button
- 2-Pin remote power on/off switch
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated

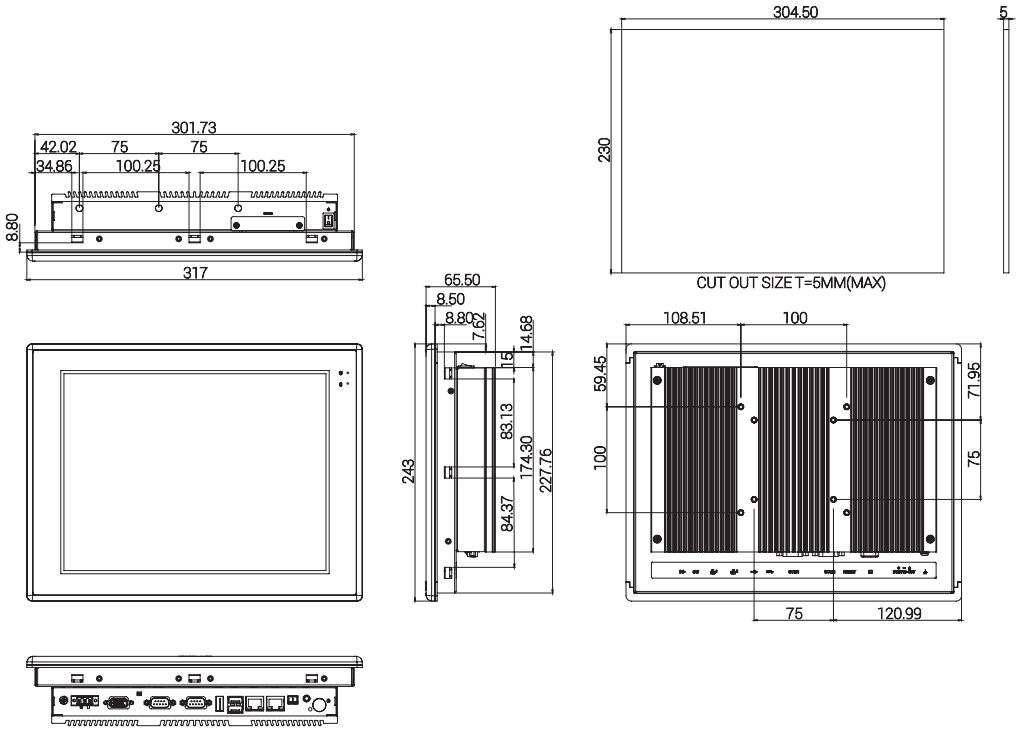
Audio
- HD audio codec: realtek ALC886-GR
- Audio interface: Line-out

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone black\RAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane and black silver PC box
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
- IEC 68 2-64 (w/HDD)
- 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
- 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
- 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
- IEC 68 2-27
- HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -5°C~60°C
- Storage temperature: -20°C~75°C
- Operating humidity: 10%~90% relative humidity, non-condensing limits to be at 90% RH at max 50°C
- Dimension: 317 x 243 x 65.5 mm
- Weight: 3.6Kg

Certifications
- CE approval
- FCC Class A

OS Support Lists
- Windows 7 32-bit/64-bit
- Windows 10 IoT 32bit/64 bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-EPC1240T	+71EPC1240TJ	12.1" TFT SVGA 4:3 Flush Panel PC with Celeron® J1900, up to 2.42GHz,Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM

eTOP-EPC1540T - Dati Tecnici

Panel
- LCD size: 15", 4:3
- Resolution: XGA 1024 x 768
- Luminance: 400cd/m2
- Contrast ratio: 2500
- LCD color: 16.7M
- Viewing angle: 88 (U), 88 (D), 88 (L), 88 (R)
- Backlight: LED

Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB

System
- CPU: on-board Intel® Celeron® Quad Core processor J1900 processor, up to 2.42GHz, 2M L2 cache
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device:
- 1 x external locked CFast socket
- 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2 x USB 2.0, 1 x USB 3.0
- Power switch
- Reset button
- 2-pin remote power on/off switch
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated

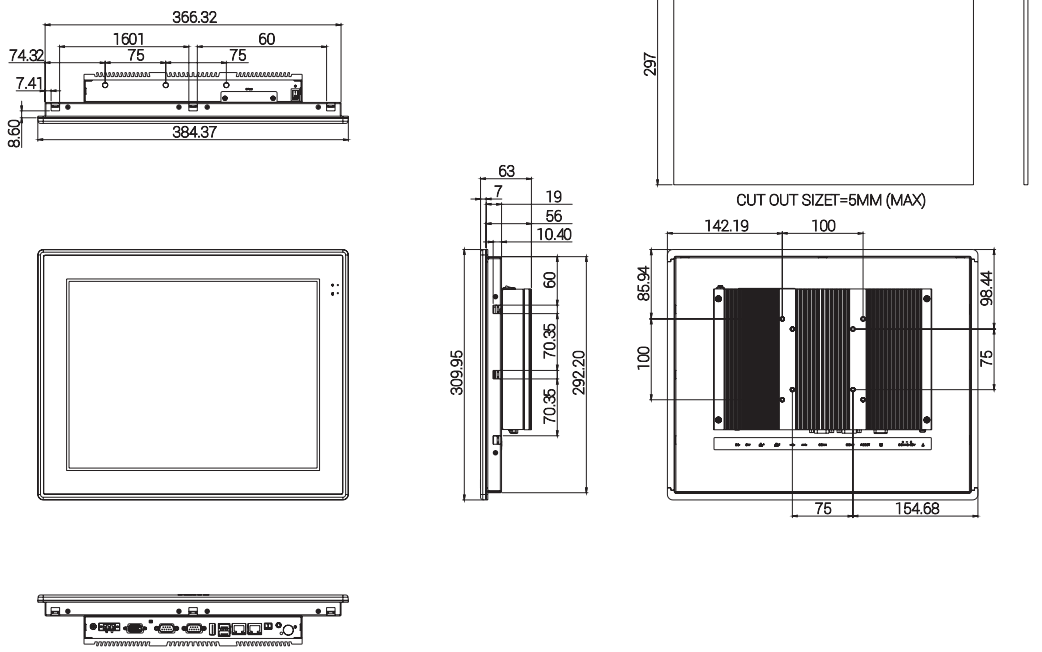
Audio
- HD audio codec: realtek ALC886-GR
- Audio interface: Line-out

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone black\RAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane and black silver PC box
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
- IEC 68 2-64 (w/ HDD)
- 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
- 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
- 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
- IEC 68 2-27
- HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing limits to be at 90% RH at max 50°C
- Dimension: 384.37 x 309.95 x 63.2 mm
- Weight: 5.1 Kg

Certifications
- CE approval
- FCC Class A

OS Support Lists
- Windows 7 32-bit/64-bit
- Windows 10 IoT 32bit/64 bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-EPC1540T	+71EPC1540TJ	15" TFT XGA 4:3 Flush Panel PC with Intel® Celeron® J1900, up to 2.42GHz, Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM

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eTOP-EPC1740T - Dati Tecnici

Panel
- LCD size: 17", 4:3
- Resolution: SXGA 1280 x 1024
- Luminance: 350cd/m2
- Contrast ratio: 800
- LCD color: 16.7M
- Viewing angle: 60 (U), 80 (D), 80 (L), 80 (R)
- Backlight: LED

Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB

System
- CPU: on-board Intel® Celeron® Quad Core processor J1900, up to 2.42GHz, 2M L2 Cache
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device:
- 1 x external locked CFast socket
- 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C) H/W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2 x USB 2.0, 1 x USB 3.0
- Power switch
- Reset button
- 2-pin remote power on/off switch
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated

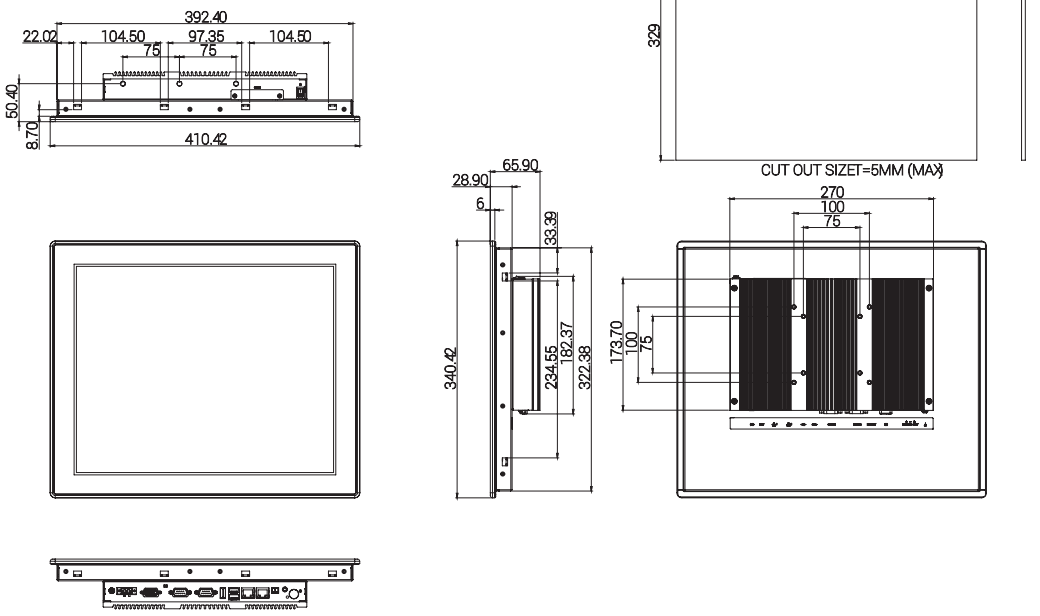
Audio
- HD audio codec: realtek ALC886-GR
- Audio interface: Line-out

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone black\RAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane and black silver PC box
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
- IEC 68 2-64 (w/ HDD)
- 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
- 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
- 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
- IEC 68 2-27
- HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing limits to be at 90% RH at max 50°C
- Dimension: 410.4 x 340.4 x 65.9mm
- Weight: 6.7 Kg

Certifications
- CE approval
- FCC Class A

OS Support Lists
- Windows 7 32-bit/64-bit
- Windows 10 IoT 32bit/64 bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-EPC1740T	+71EPC1740TJ	17" TFT SXGA 4:3 Flush Panel PC with Intel® Celeron® J1900, up to 2.42GHz, Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM

eTOP-EPC1940T - Dati Tecnici

Panel
- LCD size: 19", 4:3
- Resolution: SXGA 1280 x 1024
- Luminance: 350cd/m2
- Contrast ratio: 1000
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB

System
- CPU: on-board Intel® Celeron® Quad Core processor J1900 , up to 2.42GHz, 2M L2 cache
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device
  - 1 x External locked CFast socket
  - 1 x Hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2 x USB 2.0, 1 x USB 3.0
- Power switch
- Reset button
- 2-Pin remote power on/off switch
- COM #1: RS232/422/485 w/2.5kv isolated
- COM #2: RS232/422/485 w/2.5kv isolated

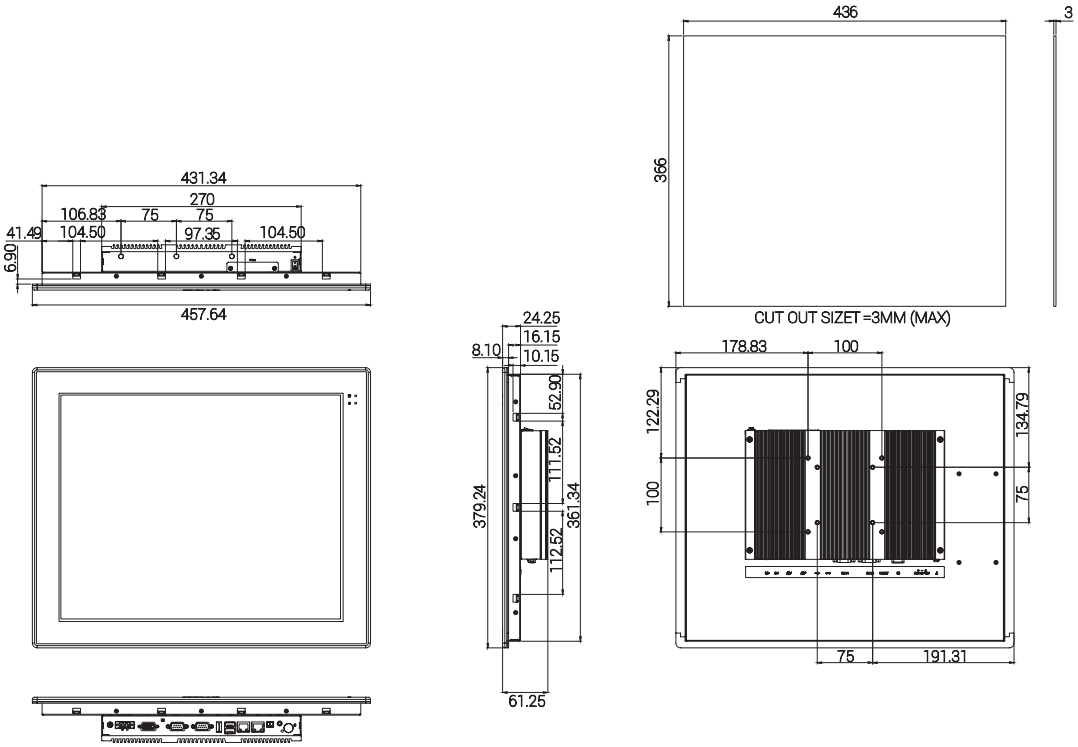
Audio
- HD audio codec: realtek ALC886-GR
- Audio interface: Line-out

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone black\RAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane and black silver PC box
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
  - IEC 68 2-64 (w/HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -5°C~50°C
- Storage temperature: -20°C~60°C
- Operating humidity: 10%~90% relative humidity, non-condensing limits to be at 90% RH at max 50°C
- Dimension: 457.64 x 379.24 x 61.25 mm
- Weight: 6.3Kg

Certifications
- CE approval
- FCC Class A

OS Support Lists
- Windows 7 32-bit/64-bit
- Windows 10 IoT 32bit /64 bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-EPC1940T	+71EPC1940TJ	19" TFT SXGA 4:3 Flush Panel PC with Intel® Celeron® J1900, up to 2.42GHz, Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM

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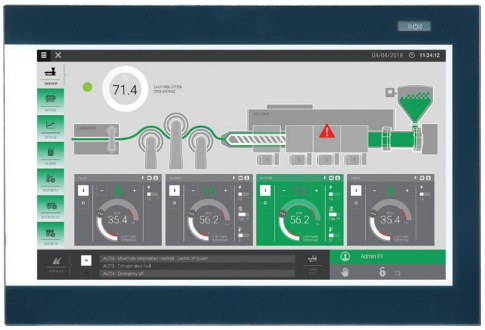
IPC - High-end Panel PC

I PC industriali di EXOR sono dotati di un potente processore Intel®, pannello LCD TFT con retroilluminazione a LED e design touch user-friendly.

Gli Industrial Panel PC offrono slot di espansione per schede add-on. La cornice frontale è in alluminio per impieghi gravosi, IP66 e resistente alle vibrazioni. Il loro design robusto in alluminio è adatto a qualsiasi ambiente industriale difficile.



Panoramica

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I PC offerti da EXOR International sono la piattaforma ideale per l'esecuzione di applicazioni basate su JMobile PC Runtime.

Una applicazione HMI runtime basata su JMobile ottimizzata per la potente piattaforma hardware di un PC e' disponibile per tutti i casi in cui una soluzione HMI embedded si rivela insufficiente.

eTOP-IPC1040P - Dati Tecnici

Panel
- LCD size: 10.1", 16:9
- Resolution: WXGA 1280 x 800
- Luminance: 300cd/m2
- Contrast ratio: 1300:1
- LCD color: 262K
- Viewing angle: 85 (U), 85 (D), 85 (L), 85 (R)
- Backlight: LED

Touch
- Ten points P-Cap (projected capacitive touch)
- Touch light transmission: 90%
- Anti-scratch surface: 7H hardness
- Touch interface: USB

System
- CPU: onboard Intel® Celeron® Quad Core processor J1900, 2.0GHz, 2M L2 Cache (maximum frequency 2.42GHz if turbo boost enabled)
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device:
  - 1 x External locked CFast socket
  - 1 x Hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/ W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)
- Front LED indicator to show operating status

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2 x USB 2.0, 1 x USB 3.0
- 2-pin remote power on/off switch
- Power switch
- Reset button
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated

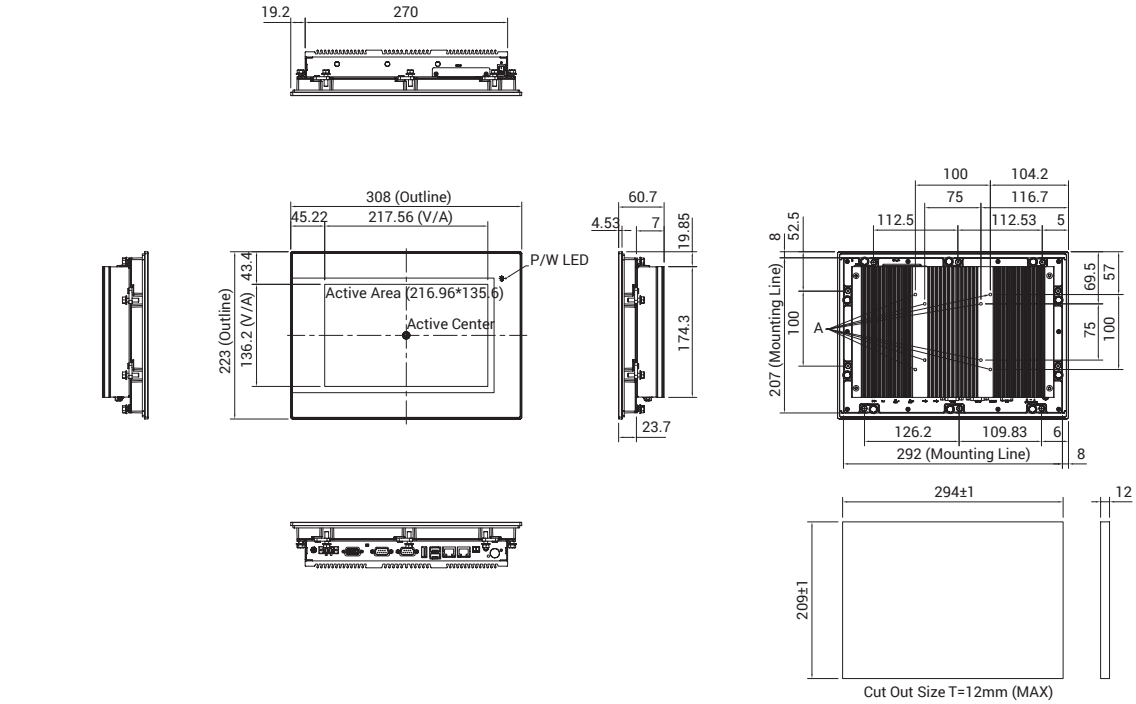
Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out audio jack

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 based-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
  - IEC 68 2-64 (w/ HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -10°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 308 x 223 x 60.7mm
- Weight: 3.7Kg

Certifications
- CE (including EN61000-6-2/EN61000-6-4)
- FCC class A

OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC1040P	+72IPC1040P	10.1" TFT WXGA 16:9 Heavy Industrial Panel PC with Intel® Celeron® Quad Core Processor J1900, up to 2.42GHz, Multi-Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM

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eTOP-IPC1640P - Dati Tecnici

Panel
- LCD size: 15.6", 16:9
- Resolution: WXGA 1366 x 768
- Luminance: 400cd/m2
- Contrast ratio: 500
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

Touch
- Ten points P-Cap (projected capacitive touch)
- Touch light transmission: 87%
- Anti-scratch surface: 7H hardness
- Touch interface: USB

System
- CPU: onboard Intel® Celeron® Quad Core processor J1900, 2.0GHz, 2M L2 Cache (maximum frequency 2.42GHz if turbo boost enabled)
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device:
  - 1 x External locked CFast socket
  - 1 x Hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/ W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)
- Front LED indicator to show operating status

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 2 x USB 2.0, 1 x USB 3.0
- 2-pin remote power on/off switch
- Power switch
- Reset button
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated

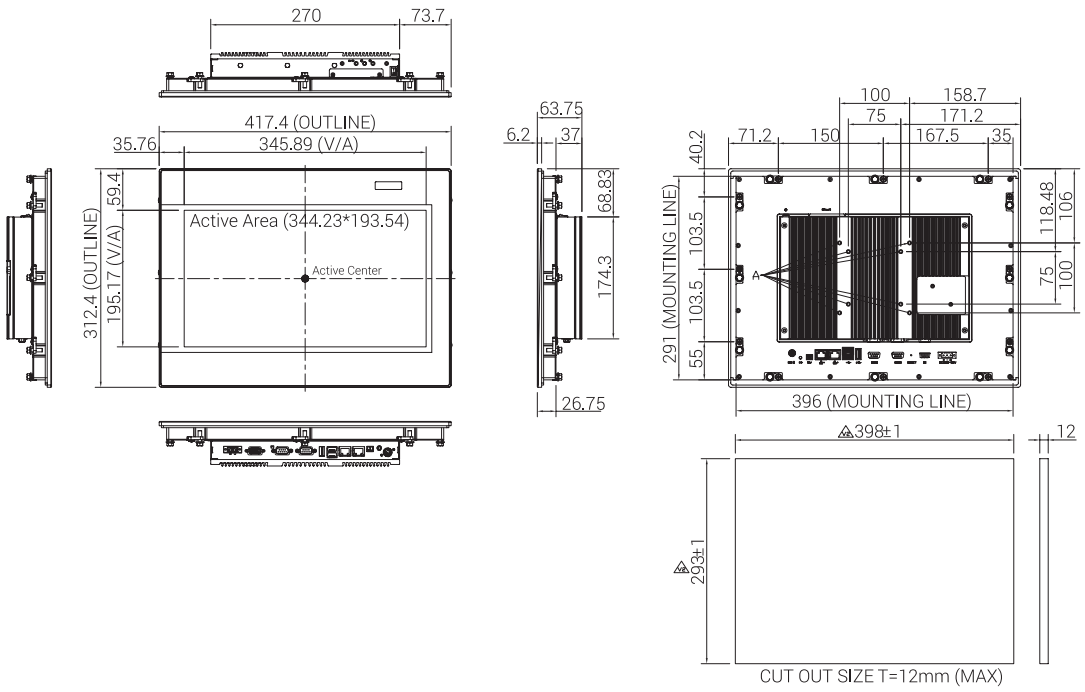
Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out audio jack

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 based-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
  - IEC 68 2-64 (w/ HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -10°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 417.4 x 312.4 x 63.75mm
- Weight: 6.4Kg

Certifications
- CE (including EN61000-6-2/EN61000-6-4)
- FCC class A

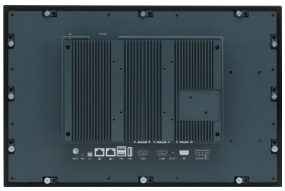
OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC1640P	+72IPC1640P	15.6" TFT WXGA 16:9 Heavy Industrial Panel PC with Intel® Celeron® Quad Core Processor J1900, up to 2.42GHz, Multi-Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM

eTOP-IPC1840P - Dati Tecnici



Panel
- LCD size: 18.5", 16:9
- Resolution: WXGA 1366 x 768
- Luminance: 300cd/m2
- Contrast ratio: 1000
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

Touch
- Ten points P-Cap (projected capacitive touch)
- Touch light transmission: 87%
- Anti-scratch surface: 7H hardness
- Touch interface: USB
- Windows 8 compliance

System
- CPU: onboard Intel® Celeron® Quad Core processor J1900, 2.0GHz,
- 2M L2 Cache (maximum frequency 2.42GHz if turbo boost enabled)
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device:
  - 1x External locked CFast socket
  - 1x Hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module or fieldbus card)
- Panel backlight control button: increase brightness/decrease brightness/backlight on/off
- Front logo LED indicator to show operating status

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1x Line-out
- USB: 2 x USB 2.0, 1 x USB 3.0
- 2 -pin remote power on/off switch
- Power switch
- Reset button
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated
- Fieldbus: (protocol interface optional)

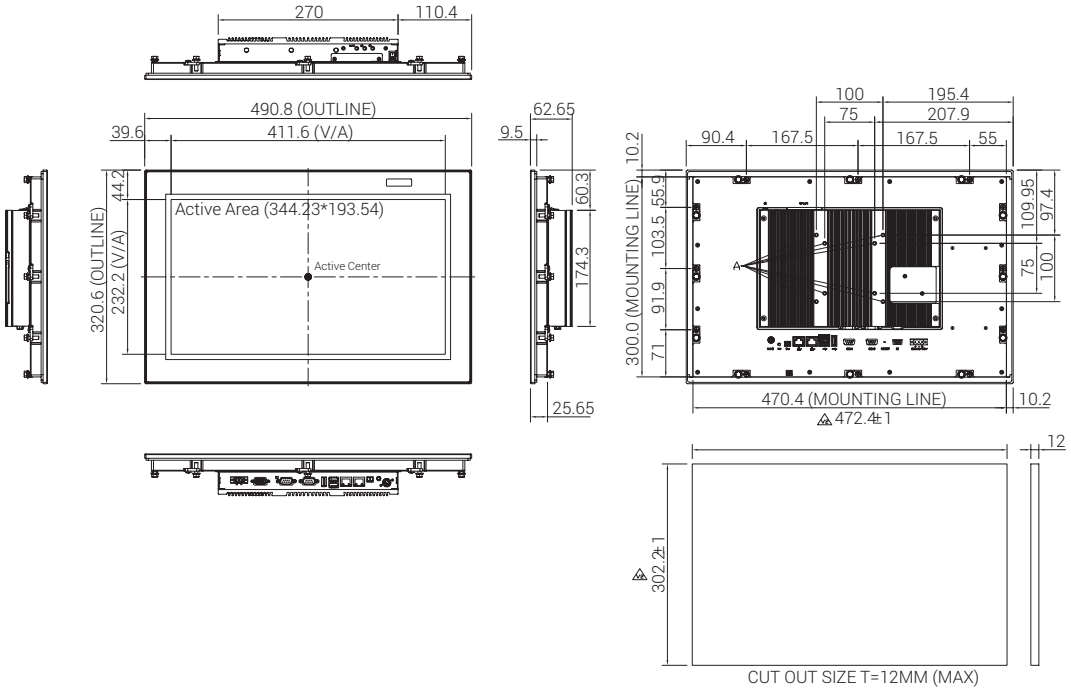
Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out audio jack

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone 425C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~30VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
  - IEC 68 2-64 (w/ HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -10°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 490.8 x 320.6 x 62.65mm
- Weight: 8.2Kg

Certifications
- CE (including EN61000-6-2/EN61000-6-4)
- FCC class A

OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC1840P	+72IPC1840P	18.5" TFT WXGA 16:9 Heavy Industrial Panel PC with Intel® Celeron® Quad Core Processor J1900, up to 2.42GHz, Multi-Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM and Fieldbus PortM and Fieldbus Port

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eTOP-IPC2140P - Dati Tecnici

Panel
- LCD size: 21.5", 16:9
- Resolution: Full HD 1920x1080
- Luminance: 300cd/m2
- Contrast ratio: 5000
- LCD color: 16.7M
- Viewing angle: 89 (U), 89 (D), 89 (L), 89 (R)
- Backlight: LED

Touch
- Ten points P-Cap (Projected Capacitive Touch)
- Touch light transmission: 87%
- Anti-scratch surface: 7H hardness
- Touch interface: USB

System
- CPU: onboard Intel® Celeron® Quad Core processor J1900, 2.0GHz, 2M L2 Cache (maximum frequency 2.42GHz if turbo boost enabled)
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 4GB DDR3L-1066/1333, non-ECC and un-buffered
- Storage device:
- 1 x external locked CFast socket
- 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature, and voltage
- Expansion: 2 x mini-PCIe sockets (support optional Wi-Fi, 3.5G module)
- Front LED Indicator to show operating status

Rear I/O
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line out
- USB: 2 x USB 2.0, 1 x USB 3.0
- 2-pin remote power on/ off switch
- Power switch
- Reset button
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated

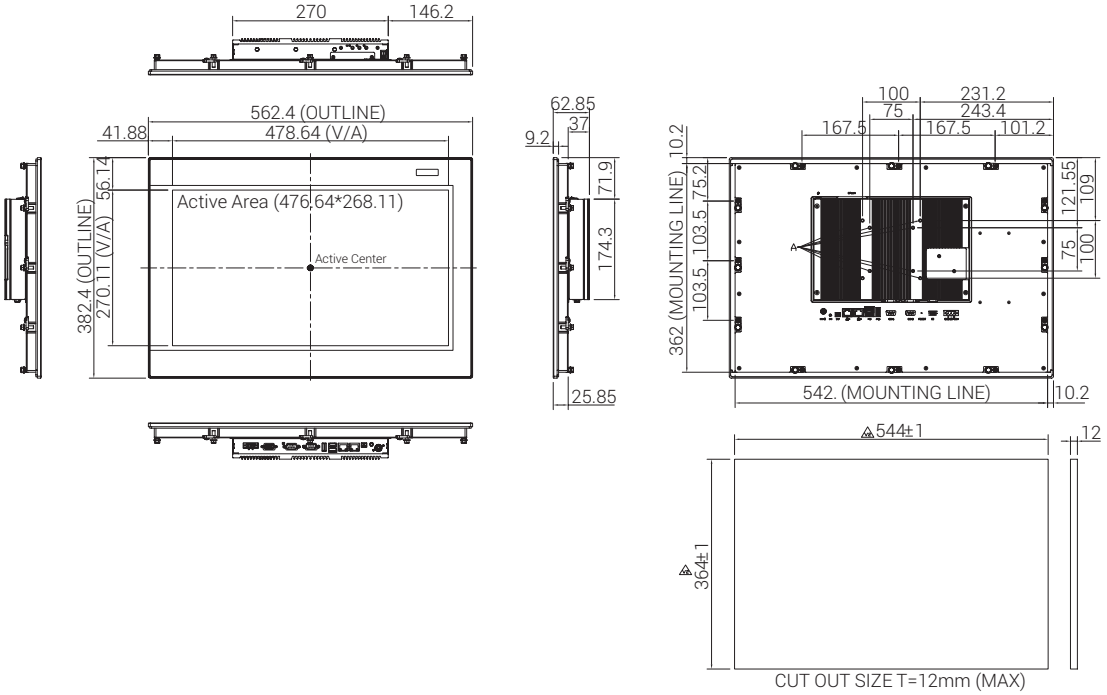
Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out audio jack

Ethernet
- LAN chip: dual Intel® I210AT Gigabit LAN
- Ethernet interface: 10/100/1000 Based-Tx Ethernet compatible

Mechanical & Environment
- Color: Pantone 432C/RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/ wall/ stand/ VESA 100mm x 100mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~30VDC
- Power adapter: Optional AC to DC power adapter (+12V, 60W)
- Vibration:
- IEC 68 2-64 (w/ HDD)
- 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
- 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
- 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
- IEC 68 2-27
- HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -10°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 562.4x382.4x62.85mm
- Weight: 9.26Kg

Certifications
- CE (including EN61000-6-2/EN61000-6-4)
- FCC Class A

OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

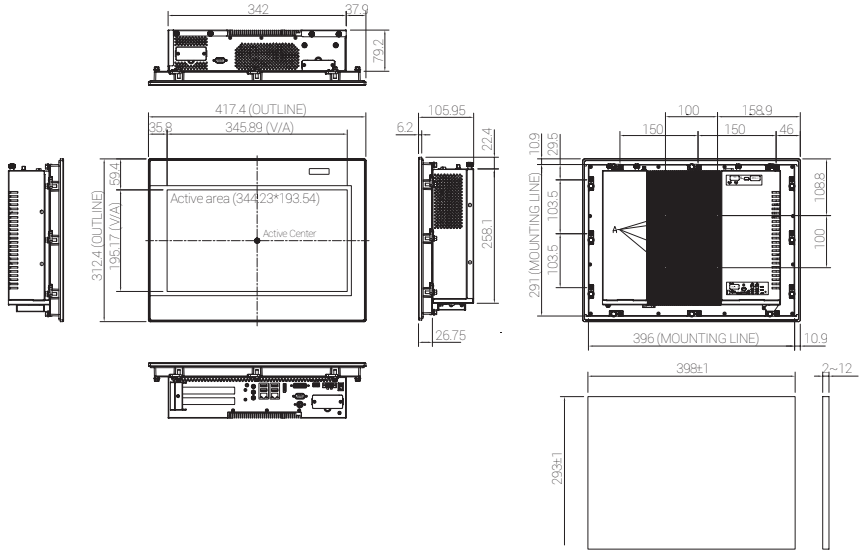
Modello	Codice di ordinazione	Descrizione
eTOP-IPC2140P	+72IPC2140P	21.5" TFT WXGA 16:9 Heavy Industrial Panel PC with Intel® Celeron® quad core processor J1900, up to 2.42GHz, Multi-Touch Screen, 8GB DDR3L, 3 x USB, 2 x COM

eTOP-IPC1670P - Dati Tecnici

Panel
- LCD size: 15.6", 16:9
- Resolution: WXGA, 1366 x 768
- Luminance: 300cd/m²
- Contrast ratio: 500
- LCD color: 16.7M
- Viewing angle: 80(U), 80(D), 85(L), 85(R)
- Backlight: LED

Touch
- Ten points P-Cap (projected capacitive touch)
- Light transmission: 87%
- Interface: USB
- Anti-scratch surface: >= 7H hardness

System
- CPU (optional): support 4th gen. Intel® Core™ i processor family, LGA1150 socket type
  - Core™ i5-4590T, Quad Core, 2.0GHz, 6M Cache (maximum frequency 3.0GHz if turbo boost enabled)
  - Core™ i5-4570TE, Dual Core, 2.7GHz, 4M Cache (maximum frequency3.3GHz if turbo boost enabled)
  - Core™ i3-4350T, Dual Core, 3.1GHz, 4M Cache (no turbo boost)
  - Core™ i3-4340TE, Dual, Core, 2.6GHz, 4M Cache (no turbo boost)
  - Pentium® G3320TE, Dual Core, 2.3GHz, 3M Cache (no turbo boost)
  - Celeron® G1820TE, Dual Core, 2.2GHz, 2M Cache (no turbo boost)
- BIOS: AMI BIOS
- System chipset: Intel® Q87 PCH
- System memory (optional): 2 x 204-pin DDR3/DDR3L SO-DIMM socket, support up to 16GB DDR3/DDR3L 1333/1600, non-ECC and unbuffered
- Storage device:
  - 1 x External locked CFast socket
  - 1 x mini-PCIe w/o SIM card holder slot to support mSATA storage
  - 1 x Hard drive bay: support 1 x 2.5" SATA HDD/SSD (optional)
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature and voltage



Expansion:
- 2 x mini-PCIe sockets (support optional Wi-Fi or 3.5G module/NVRAM/mSATA storage)
- 2 x Expansion slots for add-on PCI or/and PCIe cards (optional)
- 1 x PCI and 1 x PCIe x4 slots
- 2 x PCIe x4 slots
- 2 x PCI slots
- 1 x PCIe x16 slot

Rear I/O
- 1 x PS2 for keyboard/mouse
- Ethernet: 2 x RJ45
- 2nd/3rd display: additional independent DisplayPort: 1 x DVI-I (DVI-D + DVI-A) and 1 x DisplayPort
- Audio port: 1 x Line-out; 1 x Line-in; 1 x Mlic-in
- USB: 4 x USB3.0
- 3-pin remote power on/off switch connector
- Reset button
- COM#1: RS232/422/485 w/ 5V or 12V selection
- ATX power switch

Top I/O
- COM#2 RS232/422/485 w/ 5V or 12V selection

Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out/Line-in/Mic-in audio jack

Ethernet
- LAN chip: dual Intel® I210IT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Fieldbus
- Two FBI Windows

Mechanical & Environment
- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power:
  - Power input: 12~30 VDC
  - Power connector: 3-pin PHOENIX connector
- Vibration:
  - IEC 68 2-64 (w/ HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G @ wall mount, half sine, 11ms
- Operating temperature: -10°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing

Dimension
- 417.4 x 312.4 x 105.95mm
- Weight: (barebone): 9.18kg

Certifications
- CE (including EN61000-6-2/EN61000-6-4), FCC Class A

OS Support Lists
- Windows 7 32-bit and 64-bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 32-bit and 64-bit

Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC1670P	+72IPC1670P	15.6" TFT WXGA 16:9 Heavy Industrial Panel PC with Intel® Celeron® Quad Core Processor J1900, up to 2.42GHz, Multi-Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM

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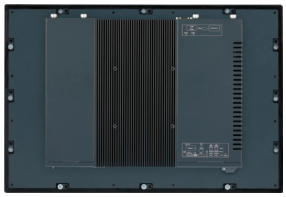
eTOP-IPC2170P - Dati Tecnici



Panel
• LCD size: 21.5", 16:9
• Resolution: Full HD, 1920 x 1080
• Luminance: 300cd/m²
• Contrast ratio: 5000
• LCD color: 16.7M
• Viewing angle: 89(U), 89(D), 89(L), 89(R)
• Backlight: LED

Touch (for eTOP-IPC2170P Series)
• Ten points P-Cap (projected capacitive touch)
• Light transmission: 87%
• Interface: USB
• Anti-scratch surface: >= 7H hardness

System
• CPU (optional): support 4th gen. Intel® Core™ i processor family, LGA1150 socket type
- Core™ i5-4590T, Quad Core, 2.0GHz, 6M Cache (maximum frequency 3.0GHz if turbo boost enabled)
- Core™ i5-4570TE, Dual Core, 2.7GHz, 4M Cache (maximum frequency3.3GHz if turbo boost enabled)
- Core™ i3-4350T, Dual Core, 3.1GHz, 4M Cache (no turbo boost)
- Core™ i3-4340TE, Dual, Core, 2.6GHz, 4M Cache (no turbo boost)
- Pentium® G3320TE, Dual Core, 2.3GHz, 3M Cache (no turbo boost)
- Celeron® G1820TE, Dual Core, 2.2GHz, 2M Cache (no turbo boost)
• BIOS: AMI BIOS
• System chipset: Intel® Q87 PCH
• System memory (optional): 2 x 204-pin DDR3/DDR3L SO-DIMM socket, support up to 16GB DDR3/DDR3L 1333/1600, non-ECC and unbuffered
• Storage device:
- 1 x External locked CFast socket
- 1 x mini-PCIe w/o SIM card holder slot to support mSATA storage
- 1 x Hard drive bay: support 1 x 2.5" SATA HDD/SSD (optional)(for DC model only)

• Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
• H/W status monitor: monitoring system temperature and voltage
• Expansion:
- 2 x mini-PCIe sockets (support optional Wi-Fi or 3.5G module/NVRAM/mSATA storage)
- 2 x Expansion slots for add-on PCI or/and PCIe cards (optional)
- 1 x PCI and 1 x PCIe x4 slots
- 2 x PCIe x4 slots
- 2 x PCI slots
- 1 x PCIe x16 slot

Rear I/O
• 1 x PS2 for keyboard/mouse
• Ethernet: 2 x RJ45
• 2nd/3rd display: additional independent DisplayPort: 1 x DVI-I (DVI-D + DVI-A) and 1 x DisplayPort
• Audio port: 1 x Line-out; 1 x Line-in; 1 x Mlic-in
• USB: 4 x USB3.0
• 3-pin remote power on/off switch connector
• Reset button
• COM#1: RS232/422/485 w/ 5V or 12V selection
• ATX power switch

Top I/O
• COM#2 RS232/422/485 w/ 5V or 12V selection

Audio
• HD codec: Realtek ALC886-GR
• Audio interface: Line-out/Line-in/Mic-in audio jack

Ethernet
• LAN chip: dual Intel® I210IT Gigabit LAN
• Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

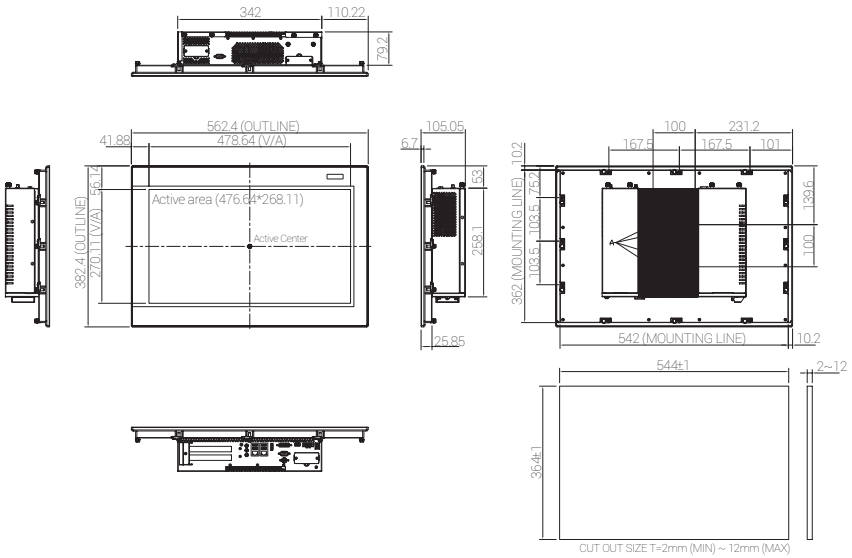
Fieldbus
• Two FBI Windows

Mechanical & Environment
• Color: Pantone 432C\RAL 70 24 front bezel
• IP protection: IP66 front
• Mounting: panel/wall/stand/VESA 100mm x 100mm
• Power:
- Power input: 12~30 VDC
- Power connector: 3-pin PHOENIX connector
• Vibration:
- IEC 68 2-64 (w/ HDD)
- 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
- 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
- 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
• Shock:
- IEC 68 2-27
- HDD: 20G @ wall mount, half sine, 11ms
• Temperature:
- Operating temperature: -10°C to 50°C
- Storage temperature: -20°C to 75°C
• Operating humidity: 10%~90% relative humidity, non-condensing

Dimension
• 562.4 x 382.4 x 105.05mm
• Weight: (barebone): 11.7kg

Certifications
• CE (including EN61000-6-2/EN61000-6-4)
• FCC Class A

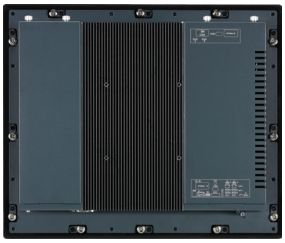
OS Support Lists
• Windows 7 PRO, 32bit/64bit
• Windows Embedded Standard 7, 32bit/64bit
• Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC2170P	+72IPC2170P	21.5" TFT Full HD 16:9 Heavy Industrial Panel PC 4th Generation Intel® Core™ i Processor

eTOP-IPC1570T - Dati Tecnici



Panel
- LCD Size: 15", 4:3
- Resolution: XGA 1024 x 768
- Luminance: 450cd/m²
- Contrast ratio: 800
- LCD color: 16.2M
- Viewing angle: 70 (U), 80 (D), 80 (L), 80 (R)
- Backlight: LED

Touch
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB

System
- CPU (optional): support 4th gen. Intel® Core™ i processor family, LGA1150 socket type
  - Core™ i5-4590T, Quad Core, 2.0GHz, 6M Cache (maximum frequency 3.0GHz if turbo boost enabled)
  - Core™ i5-4570TE, Dual Core, 2.7GHz, 4M Cache (maximum frequency 3.3GHz if turbo boost enabled)
  - Core™ i3-4350T, Dual Core, 3.1GHz, 4M Cache (no turbo boost)
  - Core™ i3-4340TE, Dual, Core, 2.6GHz, 4M Cache (no turbo boost)
  - Pentium® G3320TE, Dual Core, 2.3GHz, 3M Cache (no turbo boost)
  - Celeron® G1820TE, Dual Core, 2.2GHz, 2M Cache (no turbo boost)
- BIOS: AMI BIOS
- System chipset: Intel® Q87 PCH
- System memory (optional): 2 x 204-pin DDR3/DDR3L SO-DIMM socket, support up to 16GB DDR3/ DDR3L 1333/1600, non-ECC and unbuffered
- Storage device:
  - 1 x External locked CFast socket
  - 1 x mini-PCIe w/o SIM card holder slot to support mSATA storage
  - 1 x Hard drive bay: support 1 x 2.5" SATA HDD/SSD (optional)
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature and voltage
- Expansion:
  - 2 x mini-PCIe sockets (support optional Wi-Fi or 3.5G module/NVRAM/mSATA storage)
  - 2 x Expansion slots for add-on PCI or/and PCIe cards (optional)
  - 1 x PCI and 1 x PCIe x4 slots
  - 2 x PCIe x4 slots
  - 2 x PCI slots
  - 1 x PCIe x16 slot
  - 1 x Front accessible USB 2.0

Rear I/O
- 1 x PS2 for keyboard/mouse
- Ethernet: 2 x RJ45
- 2nd/3rd display: additional independent DisplayPort: 1 x DVI-I (DVI-D + DVI-A) and 1 x DisplayPort
- Audio port: 1 x Line-out; 1 x Line-in; 1 x Mic-in
- USB: 4 x USB 3.0
- 3-pin remote power on/off switch connector
- Reset button
- COM#1: RS232/422/485 w/ 5V or 12V selection
- ATX power switch

Top I/O
- COM#2 RS232/422/485 w/ 5V or 12V selection

Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out/Line-in/Mic-in audio jack

Ethernet
- LAN chip: dual Intel® I210IT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

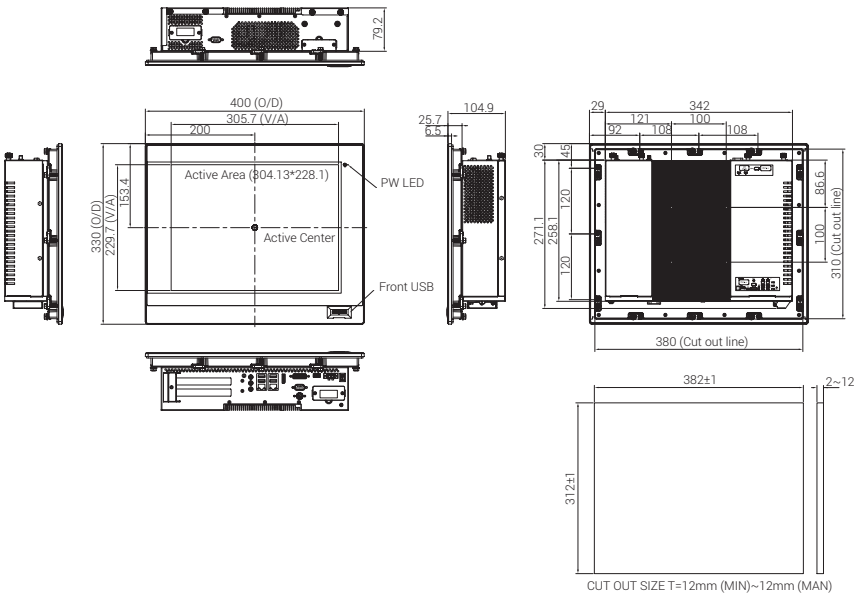
Fieldbus
- Two FBI Windows

Mechanical & Environment
- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power:
  - Power input: 12~30 VDC
  - Power connector: 3-pin PHOENIX connector

Vibration:
- IEC 68 2-64 (w/ HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G @ wall mount, half sine, 11ms
- Operating temperature
  - Resistive: -20°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing (for eTOP-IPC1570T series, limits to be at 90% RH at max 50°C)
- Dimension: 400 x 330 x 104.9 mm
- Weight: 8.99kg (barebone)

Certifications
- CE (including EN61000-6-2/EN61000-6-4), FCC Class A

OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC1570T	+72IPC1570T	15" TFT XGA 4:3 Heavy Industrial Panel PC 4th Generation Intel® Core™ i Processor

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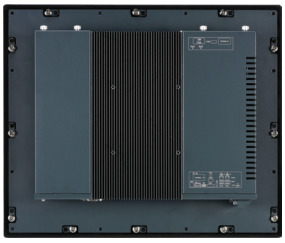
eTOP-IPC1770T - Dati Tecnici



Panel
- LCD size: 17", 4:3
- Resolution: SXGA 1280 x 1024
- Luminance: 350cd/m²
- Contrast ratio: 1000
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

Touch
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB

System
- CPU (optional): support 4th gen. Intel® Core™ i processor family, LGA1150 socket type
  - Core™ i5-4590T, Quad Core, 2.0GHz, 6M Cache (maximum frequency 3.0GHz if turbo boost enabled)
  - Core™ i5-4570TE, Dual Core, 2.7GHz, 4M Cache (maximum frequency 3.3GHz if turbo boost enabled)
  - Core™ i3-4350T, Dual Core, 3.1GHz, 4M Cache (no turbo boost)
  - Core™ i3-4340TE, Dual, Core, 2.6GHz, 4M Cache (no turbo boost)
  - Pentium® G3320TE, Dual Core, 2.3GHz, 3M Cache (no turbo boost)
  - Celeron® G1820TE, Dual Core, 2.2GHz, 2M Cache (no turbo boost)
- BIOS: AMI BIOS
- System chipset: Intel® Q87 PCH
- System memory (optional): 2 x 204-pin DDR3/DDR3L SO-DIMM socket, support up to 16GB DDR3/DDR3L 1333/1600, non-ECC and unbuffered
- Storage device:
  - 1 x External locked CFast socket
  - 1 x mini-PCIe w/o SIM card holder slot to support mSATA storage
  - 1 x Hard drive bay: support 1 x 2.5" SATA HDD/SSD (optional)
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature and voltage
- Expansion:
  - 2 x mini-PCIe sockets (support optional Wi-Fi or 3.5G module/NVRAM/mSATA storage)
  - 2 x Expansion slots for add-on PCI or/and PCIe cards (optional)
  - 1 x PCI and 1 x PCIe x4 slots
  - 2 x PCIe x4 slots
  - 2 x PCI slots
  - 1 x PCIe x16 slot
- 1 x Front accessible USB 2.0

Rear I/O
- 1 x PS2 for keyboard/mouse
- Ethernet: 2 x RJ45
- 2nd/3rd display: additional independent DisplayPort: 1 x DVI-I (DVI-D + DVI-A) and 1 x DisplayPort
- Audio port: 1 x Line-out; 1 x Line-in; 1 x Mic-in
- USB: 4 x USB3.0
- 3-pin remote power on/off switch connector
- Reset button
- COM#1: RS232/422/485 w/ 5V or 12V selection
- ATX power switch

Top I/O
- COM#2 RS232/422/485 w/ 5V or 12V selection

Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out/Line-in/Mic-in audio jack

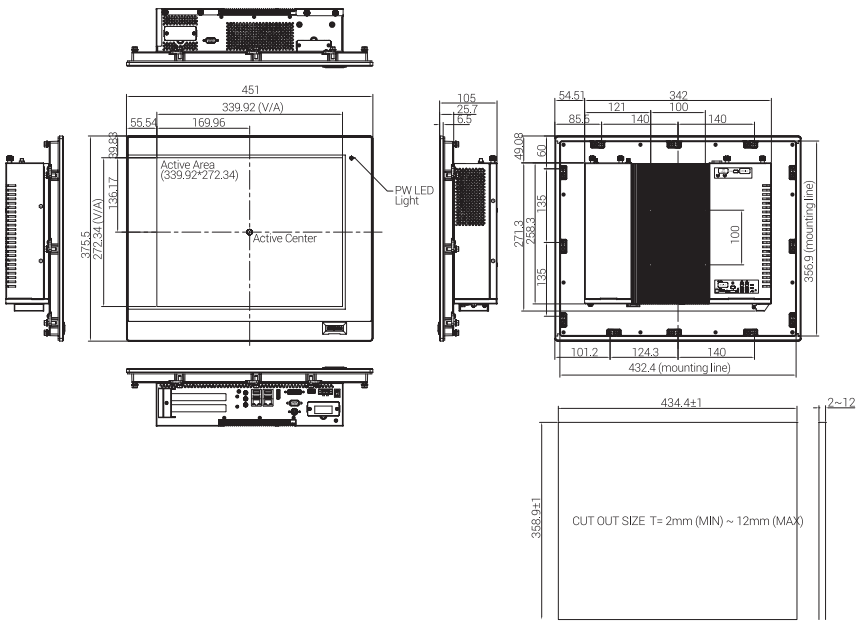
Ethernet
- LAN chip: dual Intel® I210IT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Fieldbus
- Two FBI Windows

Mechanical & Environment
- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power:
  - Power input: 12~30 VDC
  - Power connector: 3-pin Phoenix connector
- Vibration:
  - IEC 68 2-64 (w/ HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G @ wall mount, half sine, 11ms
- Operating temperature:
  - Resistive: -10°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing (for eTOP-IPC1770T series, limits to be at 90% RH at max 50°C)
- Dimension: 451 x 375.5 x 105mm
- Weight: 9.6kg (barebone)

Certifications
- CE (including EN61000-6-2/EN61000-6-4), FCC Class A

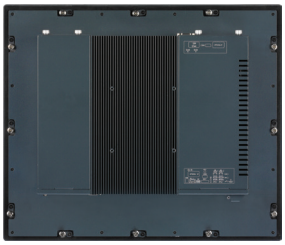
OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC1770T	+72IPC1770T	17" TFT SXGA 4:3 Heavy Industrial Panel PC 4th Generation Intel® Core™ i Processor

eTOP-IPC1970T - Dati Tecnici



Panel
- LCD size: 19", 4:3
- Resolution: SXGA 1280 x 1024
- Luminance: 350cd/m²
- Contrast ratio: 1000
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

Touch
- 5-wire resistive (flush panel type)
- Light transmission: 80±3%
- Interface: USB

System
- CCPU (optional): support 4th gen. Intel® Core™ i processor family, LGA1150 socket type
  - Core™ i5-4590T, Quad Core, 2.0GHz, 6M Cache (maximum frequency 3.0GHz if turbo boost enabled)
  - Core™ i5-4570TE, Dual Core, 2.7GHz, 4M Cache (maximum frequency 3.3GHz if turbo boost enabled)
  - Core™ i3-4350T, Dual Core, 3.1GHz, 4M Cache (no turbo boost)
  - Core™ i3-4340TE, Dual, Core, 2.6GHz, 4M Cache (no turbo boost)
  - Pentium® G3320TE, Dual Core, 2.3GHz, 3M Cache (no turbo boost)
  - Celeron® G1820TE, Dual Core, 2.2GHz, 2M Cache (no turbo boost)
- BIOS: AMI BIOS
- System chipset: Intel® Q87 PCH
- System memory (optional): 2 x 204-pin DDR3/DDR3L SO-DIMM socket, support up to 16GB DDR3/ DDR3L 1333/1600, non-ECC and unbuffered
- Storage device:
  - 1 x External locked CFast socket
  - 1 x mini-PCIe w/o SIM card holder slot to support mSATA storage
  - 1 x Hard drive bay: support 1 x 2.5" SATA HDD/SSD (optional)
- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature and voltage
- Expansion:
  - 2 x mini-PCIe sockets (support optional Wi-Fi or 3.5G module/NVRAM/mSATA storage)
  - 2 x Expansion slots for add-on PCI or/and PCIe cards (optional)
  - 1 x PCI and 1 x PCIe x4 slots
  - 2 x PCIe x4 slots
  - 2 x PCI slots
  - 1 x PCIe x16 slot
- 1 x Front accessible USB 2.0

Rear I/O
- 1 x PS2 for keyboard/mouse
- Ethernet: 2 x RJ45
- 2nd/3rd display: additional independent DisplayPort: 1 x DVI-I (DVI-D + DVI-A) and 1 x DisplayPort
- Audio port: 1 x Line-out; 1 x Line-in; 1 x Mic-in
- USB: 4 x USB 3.0
- 3-pin remote power on/off switch connector
- Reset button
- COM#1: RS232/422/485 w/ 5V or 12V selection
- ATX power switch

Top I/O
- COM#2 RS232/422/485 w/ 5V or 12V selection

Audio
- HD codec: Realtek ALC886-GR
- Audio interface: Line-out/Line-in/Mic-in audio jack

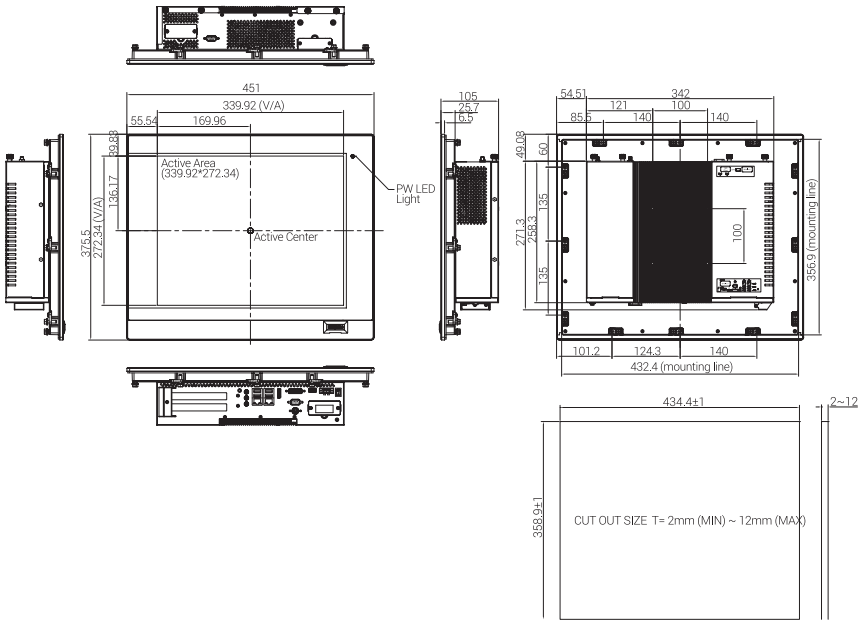
Ethernet
- LAN chip: dual Intel® I210IT Gigabit LAN
- Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Fieldbus
- Two FBI Windows

Mechanical & Environment
- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power:
  - Power input: 12~30 VDC
  - Power connector: 3-pin PHOENIX connector
- Vibration:
  - IEC 68 2-64 (w/ HDD)
  - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)
  - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)
  - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:
  - IEC 68 2-27
  - HDD: 20G @ wall mount, half sine, 11ms
- Operating temperature:
  - Resistive: -10°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing (for eTOP-IPC1970T series, limits to be at 90% RH at max 50°C)
- Dimension: 470 x 400 x 104.9 mm
- Weight: 10.25kg (barebone)

Certifications
- CE (including EN61000-6-2/EN61000-6-4)
- FCC Class A

OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-IPC1970T	+72IPC1970T	19" TFT SXGA 4:3 Heavy Industrial Panel PC 4th Generation Intel® Core™ i Processor

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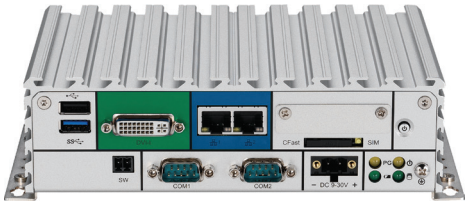
eCC / eCCF - Compact box computers

Basati sulla tecnologia Intel®, presentano un design I/O molto interessante.

Questi computer sono ideali per applicazioni critiche a livello di spazio e prestazioni, quali acquisizione dati, segnaletica digitale, controllo di porte, sistemi self-service, chioschi e applicazioni POS.



Panoramica

Tutti i prodotti sono disponibili in un'ampia e flessibile gamma di configurazioni. Potrete ottenere il prodotto che più si adatta alle vostre esigenze.Tutti i prodotti hanno una robusta costruzione meccanica.

I prodotti hanno diverse possibilità di configurazione per quanto riguarda CPU, RAM, disco e sistema operativo.

I PC offerti da EXOR International sono la piattaforma ideale per l'esecuzione di applicazioni basate su JMobile PC Runtime.

Una applicazione HMI runtime basata su JMobile ottimizzata per la potente piattaforma hardware di un PC e' disponibile per tutti i casi in cui una soluzione HMI embedded si rivela insufficiente.

eCC105 - Dati Tecnici

CPU Support
- Onboard Intel Atom® processor E3826 Dual Core, 1.46GHz
- Support Intel Atom® E3800 processor family from Single Core E3815, Dual Core E3825/E3826/E3827 and Quad Core E3845 with difference SKUs

Main Memory
- 1 x DDR3L SO-DIMM socket, support DDR3L 1066/1333 8GB RAM max., un-buffered and non-ECC

Display Option
- Dual independent display
- HDMI and DVI-D HDMI and VGA (via DVI-I to VGA converter)

I/O Interface-Front
- ATX power on/off switch
- 1 x Power status/1 x HDD access/1 x battery low/1 x programing LEDs
- 1 x External CFast socket
- 1 x SIM card holder
- 2 x Intel® I210IT GbE LAN ports; support WoL, teaming and PXE
- 1 x DVI-I display output
- 1 x USB 3.0 (900mA per each)
- 1 x USB 2.0 (500mA per each)
- 2 x DB9 for COM1 & COM2, both support RS232/422/485 with auto flow control
- Jumper-free setting on RS232/422/485 Support 5V/12V/ Ring function by jumper setting, ring as the default (COM2 only)
- 1 x Remote power on/off switch
- 1 x 2-pin DC input, support +9 to 30VDC input (nominal DC input: 24V)

I/O Interface - Rear
- 1 x USB 2.0
- 1 x HDMI
- 1 x RTC battery
- 2 x DB9 for COM3 & COM4 support RS232 only
- 1 x Mic-in & 1 x Line-out
- 2 x Antenna holes for optional Wi-Fi/3.5G antenna
- 1 x Optional I/F for optional mini-PCIe Wi-Fi/3.5G modules

I/O Interface - Internal
- 4 x GPI and 4 GPO (5V, TTL type)

Storage Device
- 1 x CFast (SATA 2.0)
- 1 x 2.5" HDD (SATA 2.0)

Expansion Slot
- 1 x mini-PCIe socket for optional Wi-Fi/3.5G modules

Power Requirement
- Power input: +9VDC to +30VDC (nominal DC input: 24V)
- 1 x Optional 24V, 60W power adapter

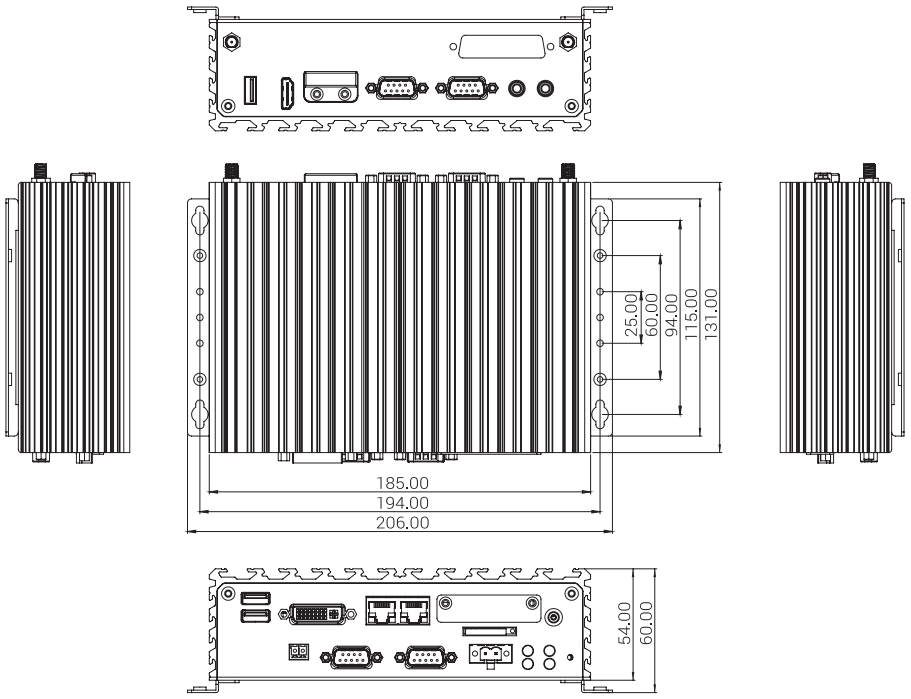
Support OS
- Windows 7 Pro , 32bit/64bit
- Windows Embedded Standard 7, 32-bit/64-bit
- Windows 10 IoT , 32bit/64bit
- Linux Kernel version 3.8.0

Dimensions
- 185mm (W) x 131mm (D) x 54mm (H) without wall-mount bracket

Construction
- Aluminum and metal chassis with fanless design

Environment
- Operating temperature: Ambient with air flow: -5°C to 55°C with industrial grade device (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -30°C to 85°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection: HDD: 20G, half sine, 11ms, IEC60068-2-27 CFast: 50G, half sine, 11ms, IEC60068-2-27
- Vibration protection w/ HDD condition:
- Random: 0.5Grms @ 5~500Hz, IEC60068-2-64
- Sinusoidal: 0.5Grms @ 5~500Hz, IEC60068-2-6
- Vibration protection w/ CFast & SSD condition: Random: 2Grms @ 5~500Hz, IEC60068-2-64
- Sinusoidal: 2Grms @ 5~500Hz, IEC60068-2-6

Certifications
- CE
- FCC Class A
- UL/cUL



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eCC105	+70ECC105	Intel Atom® Processor E3826 Dual Core Fanless System

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eCC106 - Dati Tecnici

CPU Support
- Onboard Intel® Pentium® Quad Core processor N3710, 2M Cache, 1.6GHz

Main Memory
- 1 x DDR3L SO-DIMM socket, support DDR3L 1600 8GB RAM max., un-buffered and non-ECC

Display Option
- 1 x HDMI + 1 x DVI-D + 1 x DP display port

I/O Interface-Front
- ATX power on/off switch
- 1 x Power status/1 x HDD access/1 x battery low/1 x programing/4 x Tx/Rx LEDs
- 2 x Intel® I210AT GbE LAN ports; support WoL, teaming and PXE
- 1 x HDMI + 1x DVI-D display output
- 4 x USB 3.0 (900mA per each)
- 1 x 3-pin DC input, support +9 to 30VDC input

I/O Interface - Rear
- 1 x DisplayPort
- 1 x SIM card holder
- 1 x External CFast socket
- 2 x DB9 for RS232/422/485 with auto flow control (COM1 and COM2)
- 2 x DB9 for RS232 (COM3 and COM4)
- 2 x Antenna holes for optional Wi-Fi/3.5G antenna
- 1 x Remote power on/off switch
- 1 x Optional I/F for optional mini-PCIe Wi-Fi/3.5G/LTE/ NEXCOM's automation module output

I/O Interface - Internal
- 4 x GPI and 4 x GPO (5V, TTL type)

Storage Device
- 1 x 2.5" HDD (SATA 3.0)

Expansion Slot
- 1 x mini-PCIe socket for optional Wi-Fi/4G LTE/3.5G modules

Power Requirement
- Power input: +9 to 30 VDC
- 1 x Optional 24V, 60W power adapter

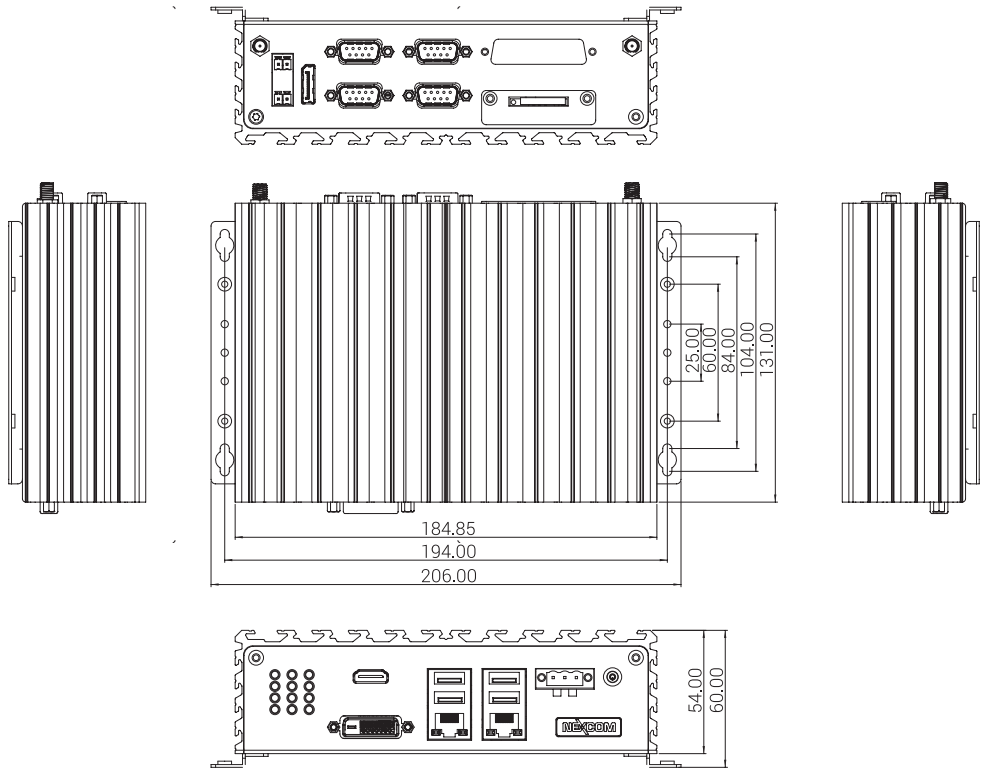
Dimensions
- 185mm (W) x 131mm (D) x 54mm (H) without wall-mount bracket

Construction
- Aluminum chassis with fanless design

Environment
- Operating temperature:
- Ambient with air flow: -5°C to 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -30°C to 85°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-27
  - CFast: 50G, half sine, 11ms, IEC60068-27
- Vibration protection w/ HDD condition:
  - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6
- Vibration protection w/ CFast & SSD condition:
  - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

Certifications
- CE
- FCC Class A

Support OS
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eCC106	+70ECC106	Intel® Pentium® processor N3710 Quad Core, 1.6GHz fanless system

eCC3600E - Dati Tecnici

CPU Support
- Support 3rd generation Intel® Core i7/i5/i3 rPGA socket type processor
- Core™ i5-3610ME, Dual Core, 2,7GHz, 3M Cache, Max Turbo Frequency 33 GHz
- Core™ i3-3120ME, Dual Core, 2,4GHz, 3M Cache
- Celeron (B810),Dual Core,1,6 Ghz, 2M Cache
- Support three independent display with above processors
- Turbo-boost disabled by default

Main Memory
- 2 x DDR3 SO-DIMM socket, supports up to 8GB DDR3 DDR3L 1333/1600 SDRAM, with un-buffered and non-ECC

Display Option
- Three independent display (only support on 3rd generation Processor)
  - Two display port and 1 x VGA
  - Two display port and 1 x DVI-D
- Dual independent display
  - VGA and DVI-D
  - Display port and VGA
  - Display port and DVI-D
  - Display port and display port

I/O Interface-Front
- ATX power on/off switch
- HDD access/power status LEDs
- 2 x USB 30 ports (blue color)
- 2 x Display port (can be converted to DVI-D or HDMI via active cables)
- 2 x Antenna holes
- 1 x External CFast
- 1 x SIM card socket

I/O Interface-Rear
- 2 x DB9 for COM5 & COM6 (RS232)
- 1 x DB44 serial port for 4 x COM port
- COM1/COM3/COM4: RS232
- COM2: RS232/422/485
- 2 x Intel® GbE LAN ports (Intel® 82574L and 82579LM); support WoL, teaming and PXE
- 2 x USB 20 ports
- 2 x USB 30 ports (blue color)
- 1 x DB15 VGA port
- 1 x DVI-D port
- 1 x Line-out and 1 x Mic-in
- 2-pin remote power on/off switch
- +9V to 30VDC input

Storage Device
- 1 x CFast socket
- 1 x 2.5" SATA HDD or 2 x SATA DOM
- SATA DOM: support 90°C horizontal type only

Expansion Slot
- One PCIex4 expansion slot
  - Add-on card length: 169mm max.
  - Power consumption: 10W/slot max.
- 1 x mini-PCIe socket (support optional Wi-Fi or 3.5G module)

Power Requirements
- ATX power mode
- Onboard DC to DC power support from 9V to 30VDC
- Optional power adapter

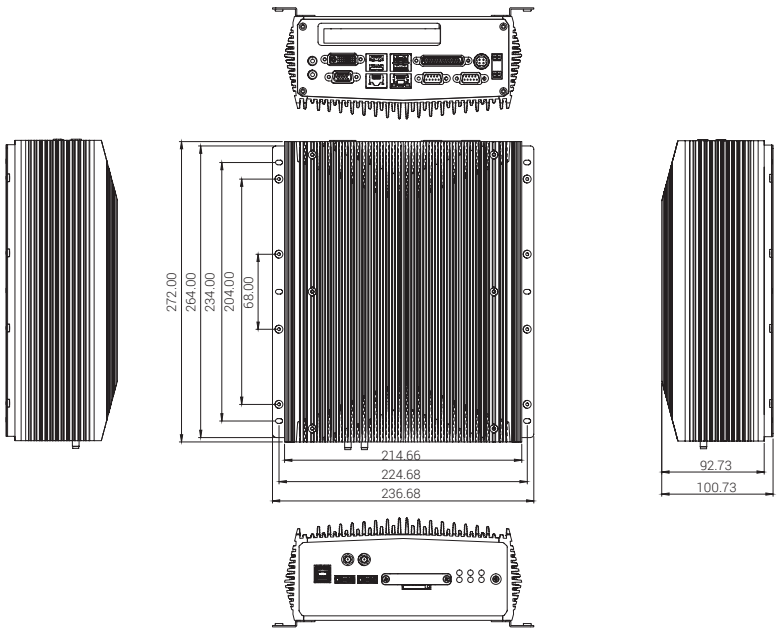
Dimensions
- 215mm (W) x 272mm (D) x 93mm (H) without wall mount bracket (8.5" x 10.7" x 4.5")

Construction
- Aluminum Chassis with fanless design

Environment
- Operating temperature: Ambient with air flow: -5°C to 55°C Ambient with air flow: -5°C to 50°C if using Core™ i7-3612QM (According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 95% at 40°C
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-2-27
- Vibration protection w/ HDD condition
  - Random: 0.5Grms @ 5~500Hz according to IEC60068- 2-64
  - Sinusoidal: 0.5Grms @ 5~500Hz according to IEC60068-2-6

Certifications
- CE approval
- FCC Class A

OS Support Lists
- Windows XP Pro , 32bit/64bit
- Windows 7 PRO, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eCC3600E	+70ECC3600E	3rd Generation Intel® Core™ i7/i5/i3 Fanless System with one PCIe x4 Expansion

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eCC3800E - Dati Tecnici

CPU Support
- Support 6th generation Intel® Core™ i7/i5/i3 LGA socket type embedded processor
  - Core™ i7-6700TE, Quad Core, 2.4GHz, 8M Cache
  - Core™ i5-6500TE, Quad Core, 2.3GHz, 6M Cache
  - Core™ i3-6100TE, Dual Core, 2.7GHz, 4M Cache
  - Intel® Pentium® Processor G4400TE 2.4GHz , 3M Cache
  - Intel® Celeron® Processor G3900TE 2.3GHz , 2M Cache
- Turbo-boost disabled by default

Main Memory
- 2 x DDR4 SO-DIMM socket, support up to 16GB with un-buffered an non-ECC

Display Option
- Three independent display
  - HDMI + DP+ DVI-D
- Dual independent display
  - HDMI + DP
  - HDMI + DVI-D
  - DP + DVI-D

Front I/O Interface Status LEDs
- 3 x LAN active LEDs
- 2 x GPO status/COM1/2 TX/RX LEDs
- 1 x HDD access LEDs

Front I/O Interface
- 1 x ATX power on/off switch
- 1 x DP
- 1 x Line-out and 1 x Mic-in
- 2 x Antenna holes
- 1 x External M.2 socket
- 1 x SIM card holder

Rear I/O Interface
- 2 x DB9 for COM1 & COM2
  - COM1: RS232/422/485 auto flow control
  - COM2: RS232/422/485 auto flow control
- 4 x USB 3.0 ports (900mA per each)
- 2 x USB 2.0 ports (500mA per each)
- 1 x DVI-D port
- 1 x HDMI port
- 3 x Intel® I210IT GbE LAN ports; support WoL, teaming and PXE
- 1 x 2-pin remote power on/off switc
- +9V to 30V DC input

Storage Device
- 1 x M.2 (SATA 3.0)
- 1 x mSATA (SATA 3 0)
- 1 x 2.5" HDD (SATA 3.0)

Expansion Slot
- One PCIe x4 expansion slot
  - Add-on card length: 169mm max.
  - Power consumption: 10W/slot max.
- 2 x Internal mini-PCIe socket support optional Wi-Fi/3.5G/ mSATA/
- Fieldbus

Power Requirements
- AT/ATX power mode (default: ATX power mode)
- Power input: +9 to +30V DC
- Power adapter: optional AC to DC power adapter (24VDC, 120W)

Dimensions
- 215 mm(W) x 272mm (D) x 93mm (H) without wall mount bracket (8.5" x 10.7" x 3.7")

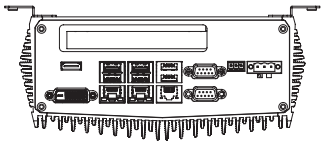
Construction
- Aluminum and metal chassis with fanless design

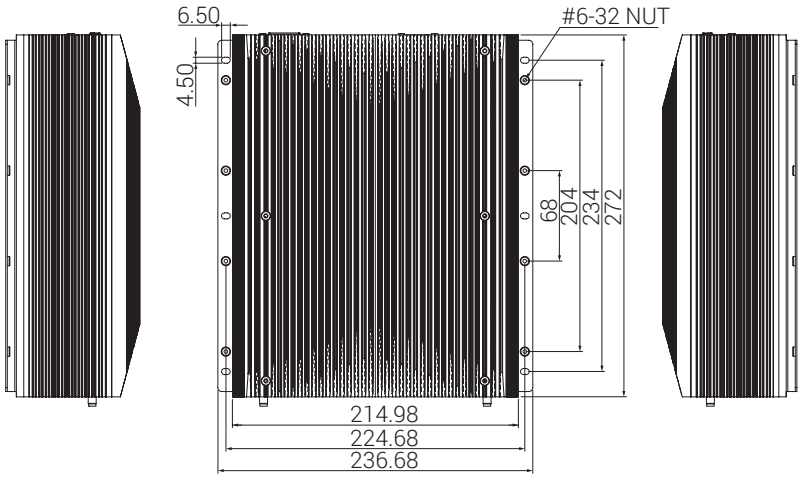
Environment
- Operating temperature:
- Ambient with air flow: -5°C to 55° (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 85°C
- Relative humidity: 10% to 93% (non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-27
  - M.2: 50G, half sine, 11ms, IEC60068-27
- Vibration protection with HDD condition:
  - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6

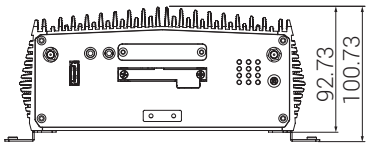
Certifications
- CE approval- EN61000-6-2- EN61000-6-4
- FCC Class A

OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit

Weight Information
- Gross weight: 5.9 kg
- Net weight: 4.5 kg







Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eCC3800E	+70ECC3800E	6th Generation Intel® Core™ i7/i5/i3 LGA Fanless System with Expansion

eCCF105 - Dati Tecnici

CPU Support
- Onboard Intel® Atom™ x5-E3930 processor Dual Core 1.8GHz

Main Memory
- On-board type 4GB DDR3L RAM
  - Un-buffered and non-ECC

Display Output
- 1 x HDMI display

I/O Interface-Front
- 2 x Intel® I210IT GbE LAN ports; support WoL, teaming and PXE
- 4 x USB 3.0 (900mA)
- 1 x External SD card slot (data storage only)
- 1 x Power/1x HDD access LEDs
- 1 x Battery low/1x GP0 programming LED
- 2 x Tx/Rx LEDs
- 1 x ATX power on/off switch

I/O Interface-Top
- 1 x Remote switch/1 x S3
- 1 x SIM card slot
- 1 x RTC battery socket

I/O Interface-Bottom
- 2 x DB9, support RS232/422/485 with Auto Flow Control
- 1 x Optional DB9, support 4 x GPI and 4 x GPO

Storage Device
- Onboard 16GB eMMC
- Optional mSATA module

Power Requirement
- Power input: typical +24VDC ±20%
- 1 x Optional 24V, 60W power adapter

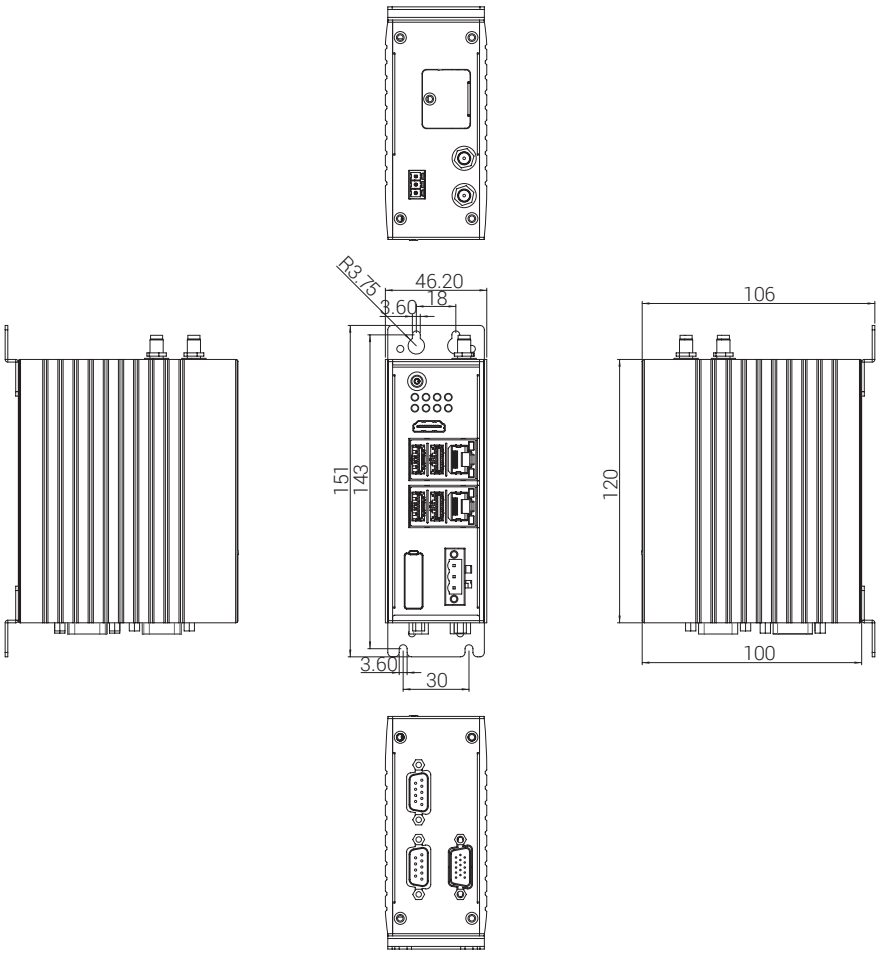
Dimensions
- 46.2mm (W) x 100mm (D) x 120mm (H)

Construction
- Aluminum and Metal Chassis with front access design

Environment
- Operating temperature: Ambient with air flow: -5°C to 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 75°C
- Relative humidity: 10% to 93% (non-condensing)
- Shock protection:
  -mSATA/eMMC: 50G, half sine, 11ms, IEC60068-27
- Vibration protection w/ mSATA or eMMC condition:
  -Random: 2Grms @ 5~500 Hz, IEC60068-2-64
  -Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

Certifications
- CE approval
  -EN61000-6-2
  -EN61000-6-4
- FCC Class A

Support OS
- Windows 10 IoT , 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eCCF105	+70ECCF105	Intel® Atom™x5-E3930 Dual Core Factory Automation Fanless System with Palm Size form Factor

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eCCF200 - Dati Tecnici

CPU Support
- Onboard Intel® Celeron® processor J1900 Quad Core 2.0GHz
- Support Intel® Atom™ E3800 processor family from Single Core E3815, Dual Core E3825/E3826/E3827 and Quad Core E3845 with difference SKUs

Main Memory
- 2 x DDR3L SO-DIMM socket, support DDR3L 1066/1333 8GB RAM max., un-buffered and non-ECC

Display Option
- Dual independent display -DVI-I and DP

I/O Interface-Front
- ATX power on/off switch
- LEDs for HDD LED, batty LEDs, power LED, COM port Tx/Rx, 5x programmable GPO LEDs
- 1 x External SD card
- 1 x SIM card holder
- 2 x Intel® I210AT GbE LAN ports, support WoL, teaming and PXE
- 1 x DP display output
- 1 x DVI-I display output
- 1 x USB 3.0 (900mA per each)
- 3 x USB 2.0 (500mA per each)
- 2 x RS232/422/485 support auto flow control
  - Jumper-free setting on RS232/422/485
  - Support 2.5KV isolation protection on COM1
- 1 x 3-pin DC input, typical 24V DC input with ±20% range

Storage Device
- 1 x 2.5" SSD/HDD (SATA 2.0) - front accessible
- 1 x SD card (data storage only)
- 1 x mSATA

Expansion Slot
- 2 x mini-PCIe socket for optional Wi-Fi/3.5G/4G LTE/fieldbus modules

Power Requirement
- Typical 24V DC input with ±20% range, with reverse polarity protection
- 1 x Optional 24V, 60W power adapter

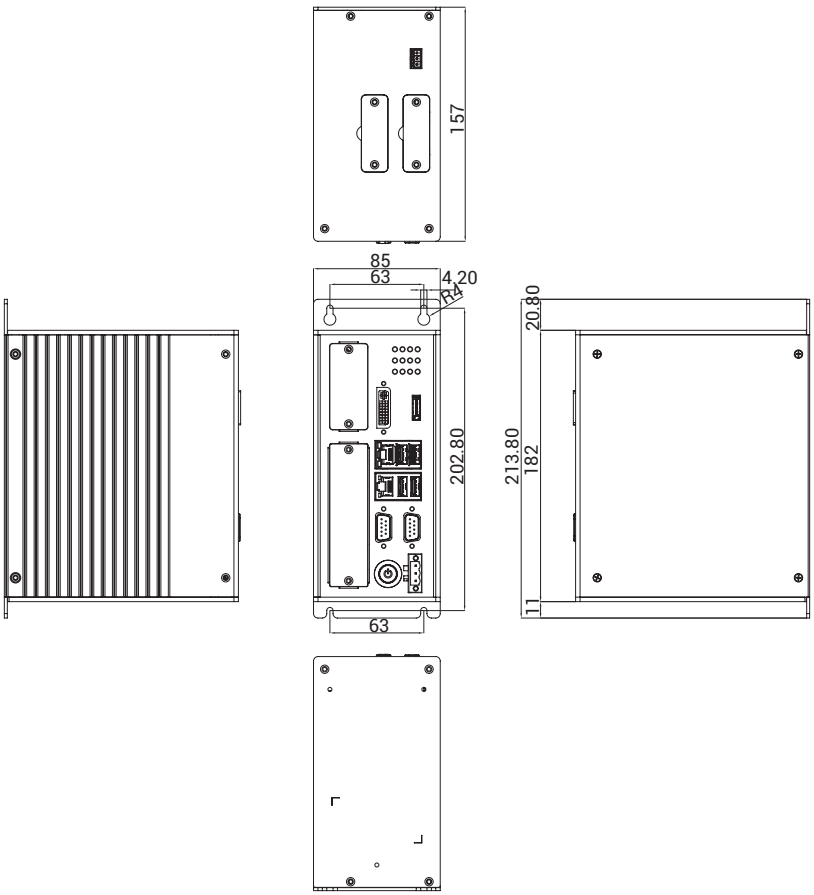
Dimensions
- 85mm (W) x 157mm (D) x 214mm (H)

Construction
- Aluminum and metal chassis with fanless design

Environment
- Operating temperature: Ambient with air flow: -5°C to 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-2-27
  - SSD: 50G, half sine, 11ms, IEC60068-2-27
- Vibration protection w/ SSD condition:
  - Random: 2Grms @ 5~500Hz, IEC60068-2-64
  - Sinusoidal: 2Grms @ 5~500Hz, IEC60068-2-64

Certifications
- CE approval
  - EN61000-6-2
  - EN61000-6-4
- FCC Class A
- LVD
- UL60950

Support OS
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eCCF200	+70ECCF200	Intel® Celeron® J1900 Quad Core 2.0GHz Factory Automation Fanless System with Fieldbus Expansion Ability

eCCF300 - Dati Tecnici

CPU Support
- Support 6th generation Intel® Core™ i7/i5/i3 LGA socket type processors
  - Core™ i7-6700TE, Quad Core, 2.4GHz, 8M Cache (maximum frequency 3.4GHz if turbo boost enabled)
  - Core™ i5-6500TE, Quad Core, 2.3GHz, 6M Cache (maximum frequency 3.3GHz if turbo boost enabled)
  - Core™ i3-6100TE, Quad Core, 2.7GHz, 4M Cache (no turbo boost)
  - Pentium G4400TE, Dual Core, 2.4GHz, 3M Cache (no turbo boost)
  - Celeron® G3900TE, Dual Core, 2.3GHz, 2M Cache (no turbo boost)

Main Memory
- 2 x DDR4 SO-DIMM socket, supports 2133MHz and up to 8GB with un-buffered and non-ECC type

Display Option
- Dual independent display -HDMI + DVI-D

Front I/O Interface Status LEDs
- 1 x Battery/1 x C-Fast LEDs
- 4 x GPO status/2 x Tx/Rx LEDs
- 1 x Power/1 x HDD access LEDs

Front I/O Interface
- 1 x ATX power on/off switch
- 1 x HDMI and 1 x DVI-D
- 4 x USB 3.0 ports (900mA per each)
- 2 x USB 2.0 ports (500mA per each)
- 1 x Line-out and 1 x Mic-in
- 2 x Antenna holes for WI-FI/ GSM
- 1 x Front access 2.5" HDD tray
- 1 x mini-PCIe expansion support optional modules
- 2 x RS232/422/485 auto with 2.5KV Isolation
- 3 x Intel® I210IT GbE LAN ports, support WoL, teaming and PXE

Top I/O Interface
- 1 x 3-pin remote switch
- 1 x CFast expansion
- 1 x SIM card

Storage Device
- 1 x CFast (SATA 3.0)
- 1 x 2.5" HDD (external, SATA 3.0)
- 1 x 2.5" HDD (internal, SATA 3.0)
- 1 x mSATA (via internal mini-PCIe socket)

Expansion Slot
- eCCF300: no expansion
- Power Requirement

AT/ ATX power mode (default with ATX power mode)
Power input: typical +24VDC ±20%, with reverse polarity protection
Power adapter: optional AC to DC power adapter (+24VDC, 120W)

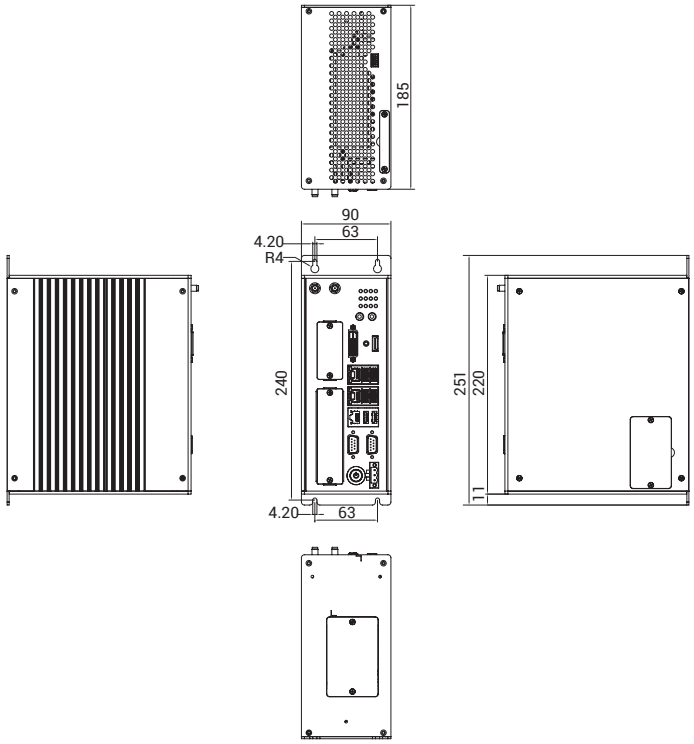
Dimensions
- eCCF300: 90 mm(W) x 185mm (D) x 251mm (H)

Construction
- Aluminum and metal chassis with front access design

Environment
- Operating temperature: Ambient with air flow: -5°C to 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 85°C
- Relative humidity: 10% to 93% (non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-27
  - CFast: 50G, half sine, 11ms, IEC60068-27
- Vibration protection w/ HDD condition:
  - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-64

Certifications
- CE approval
  - EN61000-6-2
  - EN61000-6-4
- FCC Class A
- LVD

OS Support Lists
- Windows 7 PRO, 32bit/64bit
- Windows Embedded Standard 7, 32bit/64bit
- Windows 10 IoT, 32bit/64bit



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eCCF300	+70ECCF300	6th Generation Intel® Core™ i7/i5/i3 LGA Automation System

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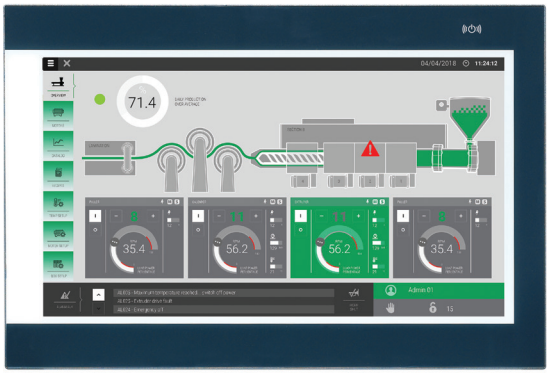
MON - Panel Monitors

La maggior parte del monitor touchscreen industriali EXOR sono molto simili alle serie IPC o EPC per la stessa applicazione in ambiente industriale.



Panoramica

Tutti i prodotti sono disponibili in un'ampia e flessibile gamma di configurazioni.

Potrete ottenere il prodotto che più si adatta alle vostre esigenze.

Tutti i prodotti hanno una robusta costruzione meccanica.

eTOP-MON1200T - Dati Tecnici

Panel
- LCD size: 12.1", 4:3
- Resolution: SVGA 800 x 600
- Luminance: 500 cd/m²
- Contrast ratio: 700
- LCD color: 16.2M
- Viewing angle: 65 (U), 75 (D), 80 (L), 80 (R)
- Backlight: LED

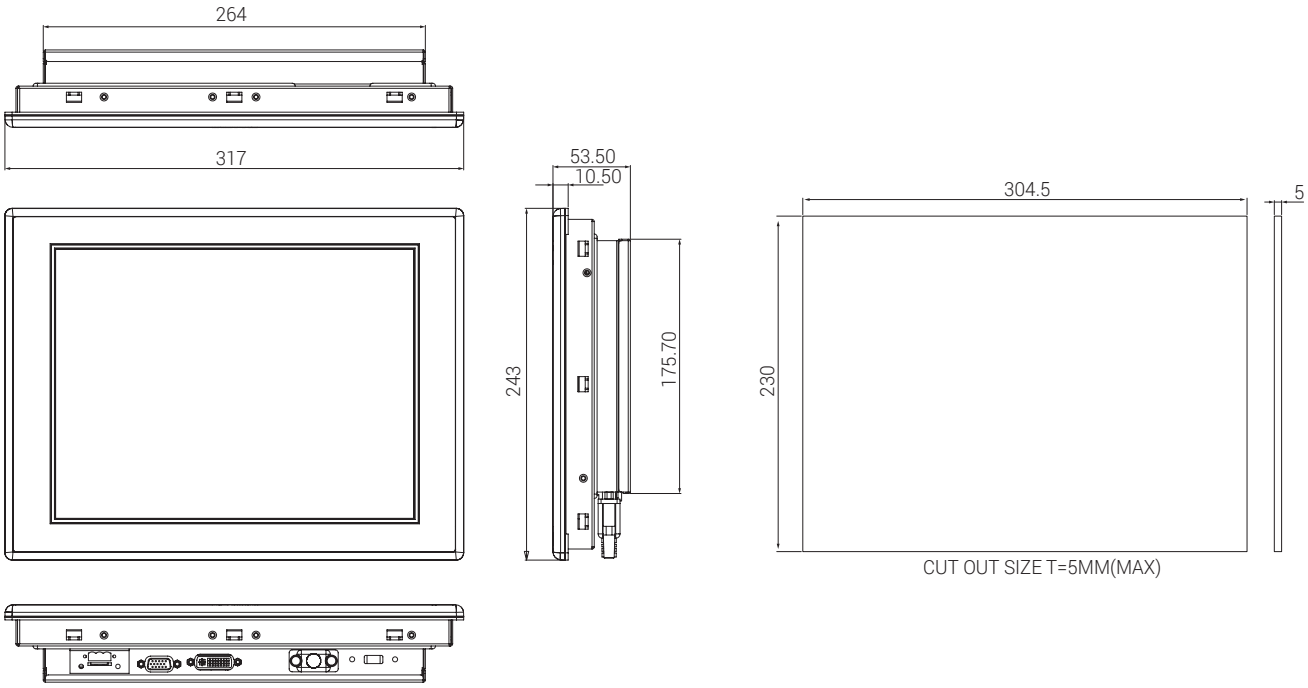
Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 80%
- Interface: USB and RS232

Rear I/O
- Touch screen interface port: RS-232 (1 x DB9)/USB type A
- Video port: VGA (1 x DB15)/DVI-D (1 x DVI-I connector)
- DC power input connector: 3-pin Phoenix terminal blocks

OSD Function
- OSD keypad
- Multilanguage OSD

Mechanical & Environment
- Color: Pantone black
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~24VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
IEC 68 2-64
2Grms @ sine, 5~500Hz, 1hr/axis (operating)
2.2Grms @ random condition, 5~500Hz,
0.5hr/axis (non operating)
- Shock:
IEC 68 2-27
20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 317 x 243 x 53.5mm
- Weight: 2.9Kg

Certifications
- CE approval
- FCC Class B



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-MON1200T	+73MON1200T	12.1" SVGA industrial 4:3 LED Backlight flush touch monitor

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eTOP-MON1500T - Dati Tecnici

Panel
- LCD size: 15", 4:3
- Resolution: XGA 1024 x 768
- Luminance: 400 cd/m^2
- Contrast ratio: 2500
- LCD color: 16.7M
- Viewing angle: 88 (U), 88 (D), 88 (L), 88 (R)
- Backlight: LED

Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB and RS 232

Rear I/O
- Touch screen interface port: RS-232 (1 x DB9)/USB type A
- Video port: VGA (1 x DB15)/DVI-D (1 x DVI-I connector)
- DC power input connector: 3-pin Phoenix terminal blocks

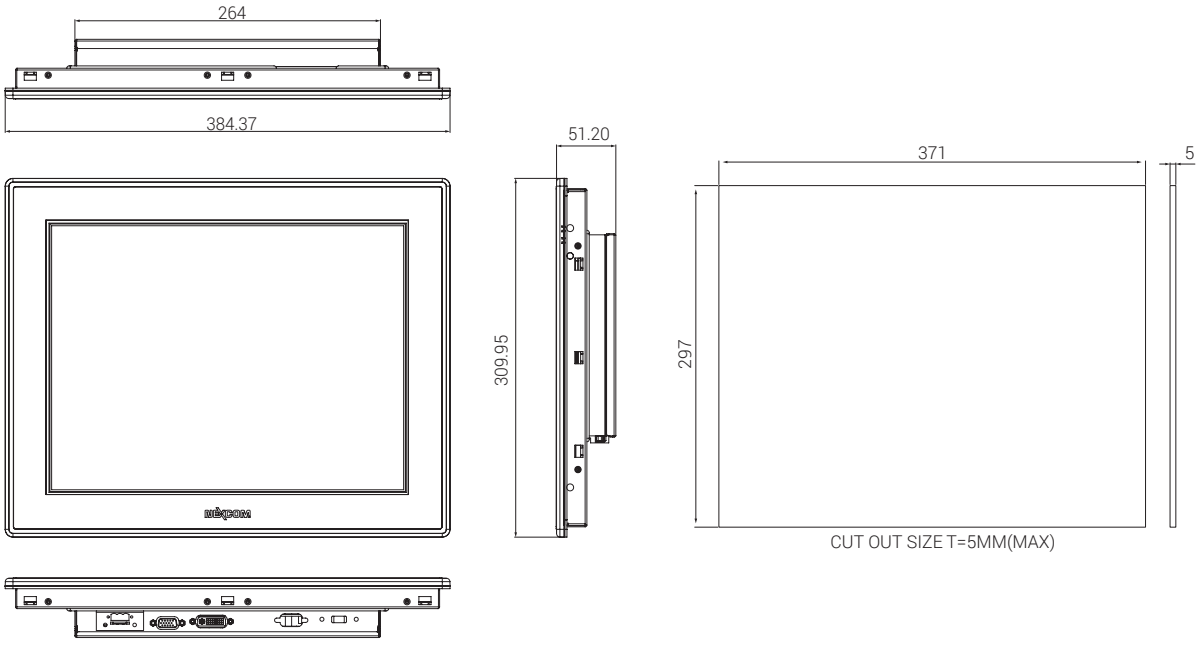
OSD Function
- OSD keypad
- Multilanguage OSD

Mechanical & Environment
- Color: Pantone black
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~24VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:

IEC 68 2-64
2Grms @ sine, 5~500Hz, 1hr/axis (operating)
2.2Grms @ random condition, 5~500Hz,
0.5hr/axis (non-operating)
- Shock:

IEC 68 2-27
20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 384.37 x 309.95 x 51.2mm
- Weight: 3.98Kg

Certifications
- CE approval
- FCC Class B



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-MON1500T	+73MON1500T	15" XGA industrial 4:3 LED Backlight flush touch monitor

eTOP-MON1700T - Dati Tecnici

Panel
- LCD size: 17", 4:3
- Resolution: SXGA 1280 x 1024
- Luminance: 350 cd/m²
- Contrast ratio: 800
- LCD color: 16.7M
- Viewing angle: 60 (U), 80 (D), 80 (L), 80 (R)
- Backlight: LED

Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB and RS232

Rear I/O
- Touch interface port: RS232 (1 x DB9)/USB type A
- Video port: VGA (1 x DB15)/DVI-D (1 x DVI-I connector)
- DC power input connector: 3-pin Phoenix terminal blocks

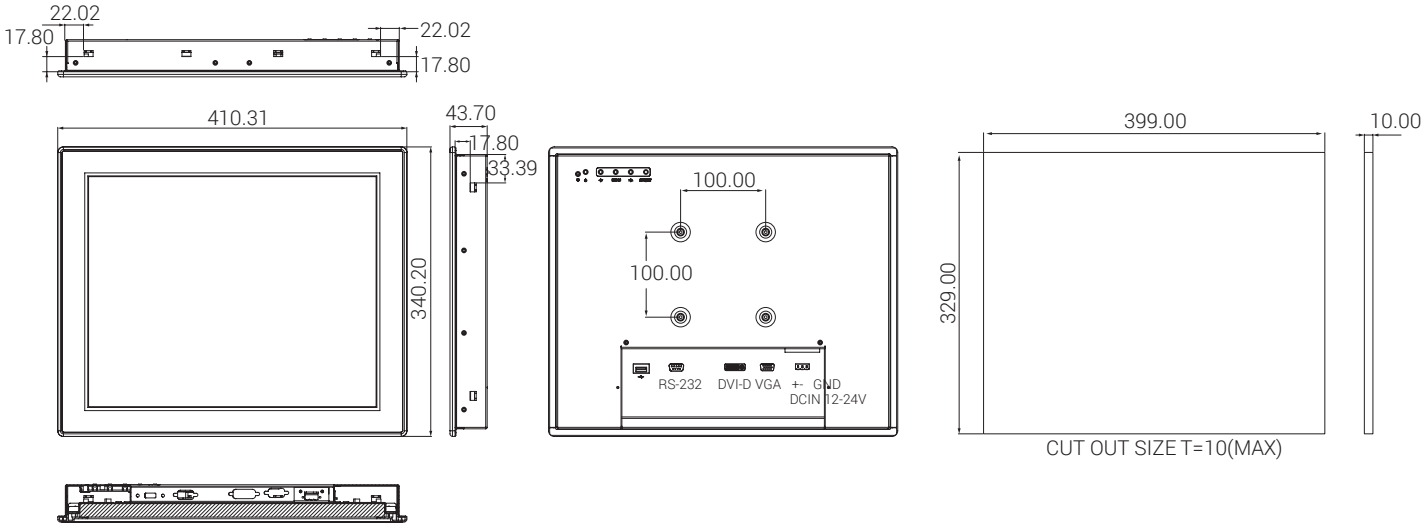
OSD Function
- OSD keypad
- Multilanguage OSD

Mechanical & Environment
- Color: Pantone black
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~24VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:

IEC 68 2-64
2Grms @ sine, 5~500Hz, 1hr/axis (operating)
2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (non-operating)
- Shock:

IEC 68 2-27
20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 410.4 x 340.4 x 43.7mm
- Weight: 5.3 Kg

Certifications
- CE approval
- FCC Class B



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-MON1700T	+73MON1700T	17" SXGA industrial 4:3 LED Backlight flush touch monitor

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eTOP-MON1900T - Dati Tecnici

Panel
- LCD size: 19", 4:3
- Resolution: SXGA 1280 x 1024
- Luminance: 350 cd/m²
- Contrast ratio: 1000
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

Touch Screen
- 5-wire resistive (flush panel type)
- Light transmission: 81%
- Interface: USB and RS232

Rear I/O
- Touch interface port: RS-232 (1 x DB9)/USB type A
- Video port: VGA (1 x DB15)/DVI-D (1 x DVI-I connector)
- DC power input connector: 3-pin Phoenix terminal blocks

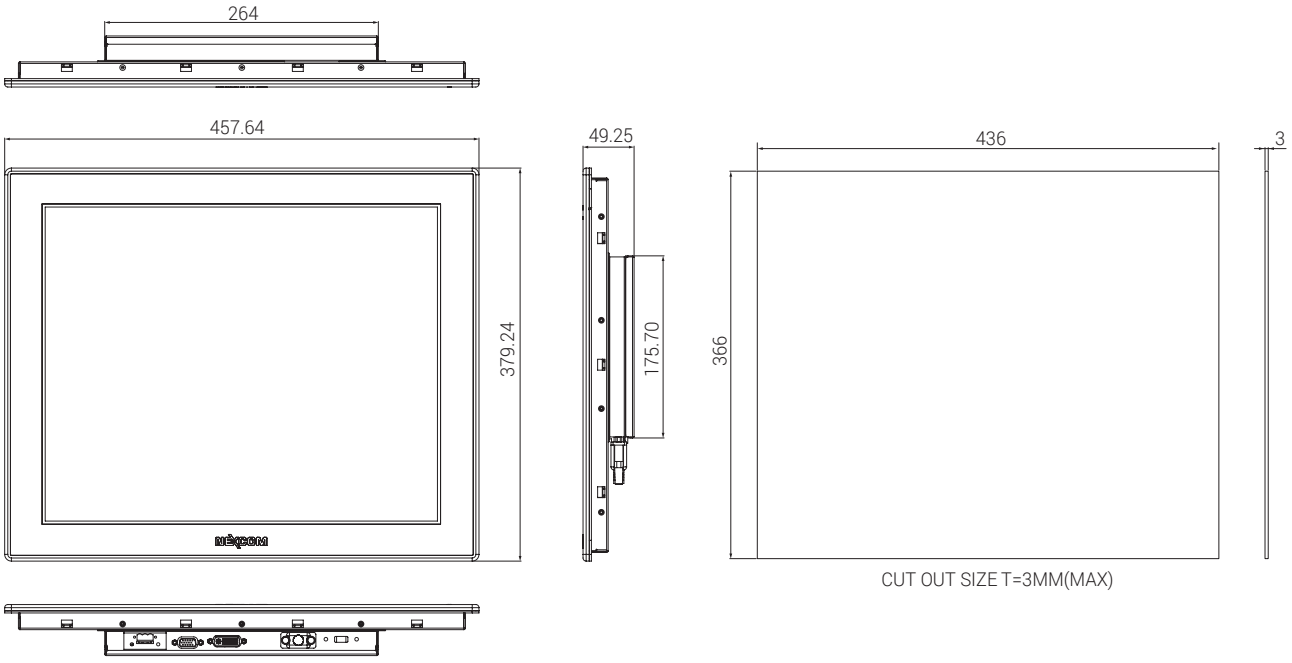
OSD Function
- OSD keypad
- Multilanguage OSD

Mechanical & Environment
- Color: Pantone black
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~24VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:

IEC 68 2-64
2Grms @ sine, 5~500Hz, 1hr/axis (operating)
2.2Grms @ random condition, 5~500Hz,
0.5hr/axis (non-operating)
- Shock:

IEC 68 2-27
20G@wall mount, half sine, 11ms
- Operating temperature: -5°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 457.64 x 379.24 x 49.25mm
- Weight: 5.4 Kg

Certifications
- CE approval
- FCC Class B



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-MON1900T	+73MON1900T	19" SXGA industrial 4:3 LED Backlight flush touch monitor

eTOP-MON1600P - Dati Tecnici

Panel
- LCD size: 15.6", 16:9
- Resolution: WXGA 1366 x 768
- Luminance: 400 cd/m²
- Contrast ratio: 500
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

Touch
- Ten points P-Cap (projected capacitive touch)
- Touch light transmission: 87%
- Anti-scratch surface: 7H hardness
- Touch interface: USB

Rear I/O
- Touch interface port: USB with Lock
- Video port: VGA (1 x DB15)/DVI-D (1 x DVI-D connector)/ DisplayPort
- DC power input connector: 3-pin PHOENIX terminal Blocks

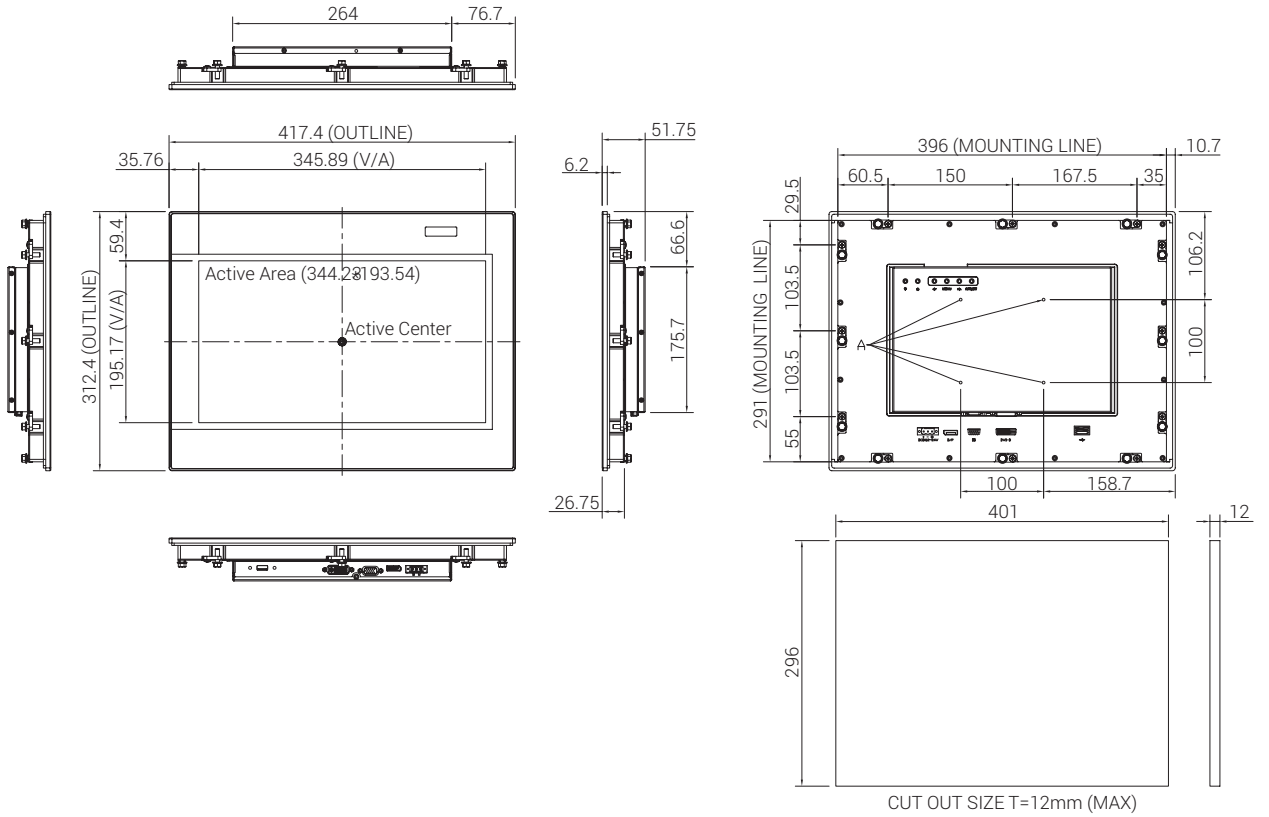
OSD Function
- OSD keypad
- Multilanguage OSD

Mechanical & Environment
- Color: Pantone 432C/RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~24VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:

IEC 68 2-64
2Grms @ sine, 5~500Hz, 1hr/axis (operating)
2.2Grms @ random condition, 5~500Hz,
0.5hr/axis (non-operating)
- Shock:

IEC 68 2-27
HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -10°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 417.4 x 312.4 x 51.75mm
- Weight: 5.48Kg

Certifications
- CE (including EN61000-6-1/EN61000-6-2/EN61000-6-3/ EN61000-6-4)
- FCC Class B



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-MON1600P	+73MON1600P	15.6" IP66 Heavy Industrial 16:9 WXGA Zero Bezel Flush Touch Monitor

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eTOP-MON1800P - Dati Tecnici

Panel
- LCD size: 18.5", 16:9
- Resolution: WXGA 1366 x 768
- Luminance: 400cd/m2
- Contrast ratio: 1000
- LCD color: 16.7M
- Viewing angle: 80 (U), 80 (D), 85 (L), 85 (R)
- Backlight: LED

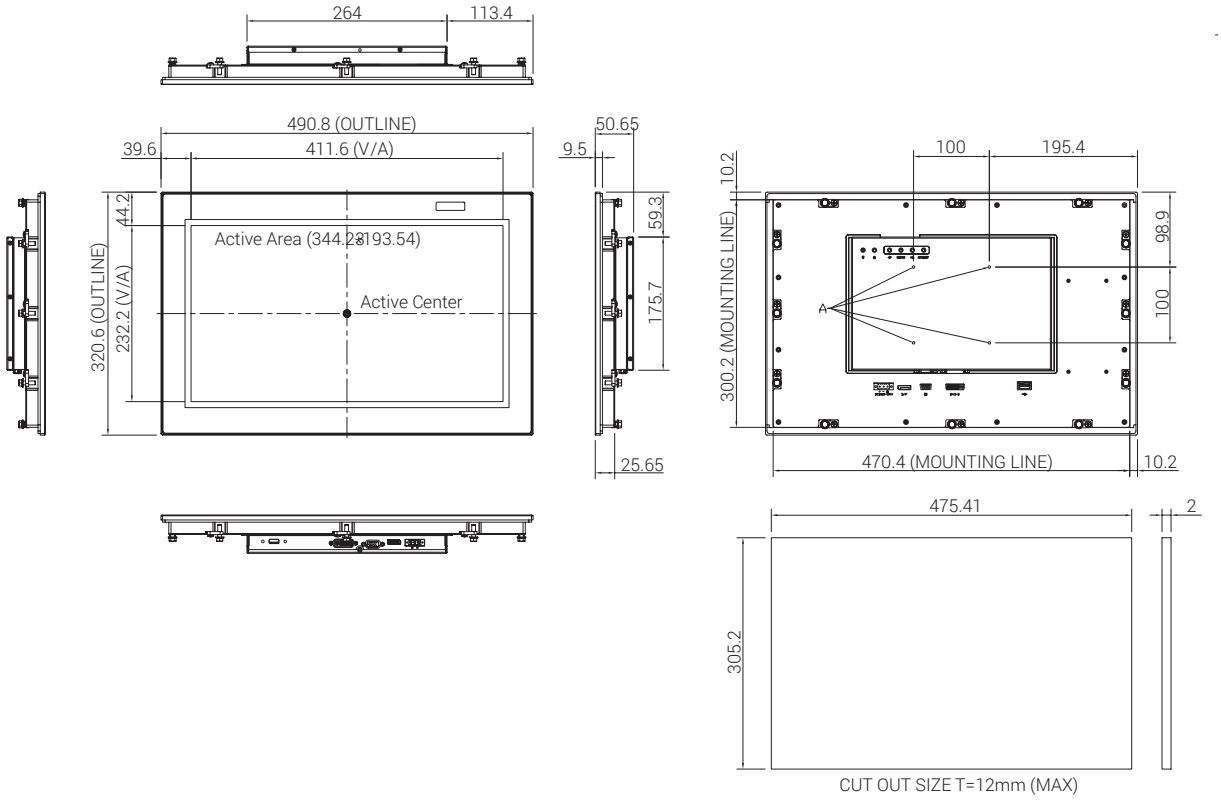
Touch
- Ten points P-Cap (projected capacitive touch)
- Touch light transmission: 87%
- Anti-scratch surface: 7H hardness
- Touch interface: USB
- Windows 8 compliance

Rear I/O
- Touch interface port: USB with Lock
- Video port: VGA (1 x DB15)/DVI-D (1 x DVI-D connector)/ DisplayPort
- DC power input connector: 3-pin PHOENIX terminal blocks

OSD Function
- OSD keypad
- Multilanguage OSD

Mechanical & Environment
- Color: Pantone 432C/RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- System with panel mounting kit w/ o panel mounting hole
- Power input: 12~24VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
IEC 68 2-64
2Grms @ sine, 5~500Hz, 1hr/axis (operating)
2.2Grms @ random condition, 5~500Hz,
0.5hr/axis (non operating)
- Shock:
IEC 68 2-27
HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -10°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 490.8 x 320.6 x 50.65mm
- Weight: 6.24Kg

Certifications
- CE (including EN61000-6-1/EN61000-6-2/EN61000-6-3/ EN61000-6-4)
- FCC Class B



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-MON1800P	+73MON1800P	18.5" IP66 Heavy Industrial 16:9 WXGA Zero Bezel Flush Touch Monitor

eTOP-MON2100P - Dati Tecnici

Panel
- LCD size: 21.5", 16:9
- Resolution: full HD 1920 x 1080
- Luminance: 300cd/m2
- Contrast ratio: 5000
- LCD color: 16.7M
- Viewing angle: 89 (U), 89 (D), 89 (L), 89 (R)
- Backlight: LED

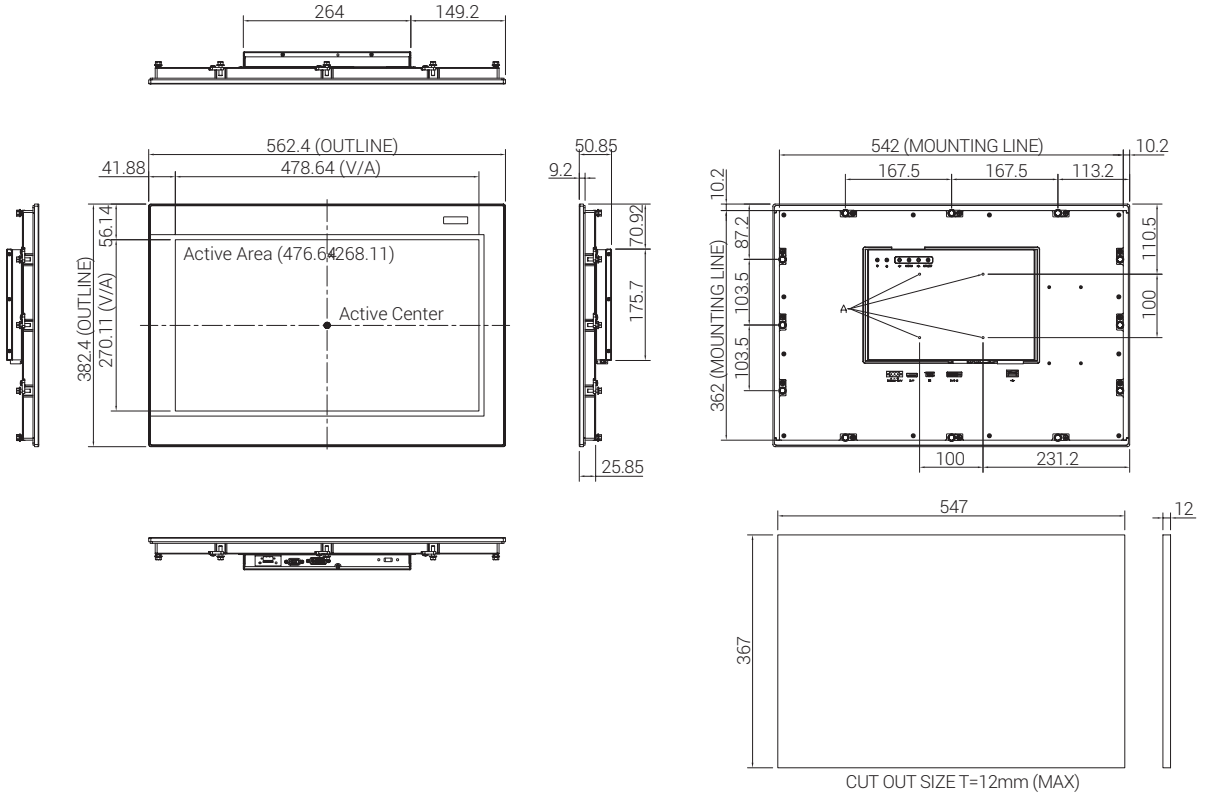
Touch
- Ten points P-Cap (projected capacitive touch)
- Touch light transmission: 87%
- Anti-scratch surface: 7H hardness
- Touch interface: USB
- Windows 8 compliance

Rear I/O
- Touch interface port: USB with Lock
- Video port: VGA (1 x DB15)/DVI-D (1x DVI-D connector)/ DisplayPort
- DC power input connector: 3-pin PHOENIX terminal blocks

OSD Function
- OSD keypad
- Multilanguage OSD

Mechanical & Environment
- Color: Pantone 432C\RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/ wall/ stand/ VESA 100mm x 100mm
- System with panel mounting kit w/o panel mounting hole
- Power input: 12~24VDC
- Power adapter: optional AC to DC power adapter (+12V, 60W)
- Vibration:
IEC 68 2-64
2Grms @ sine, 5~500Hz, 1hr/axis (operating)
2.2Grms @ random condition, 5~500Hz,
0.5hr/axis (non-operating)
- Shock:
IEC 68 2-27
HDD: 20G@wall mount, half sine, 11ms
- Operating temperature: -10°C to 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 562.4 x 382.4 x 50.85mm
- Weight: 7.87Kg

Certifications
- CE (including EN61000-6-1/EN61000-6-2/EN61000-6-3/ EN61000-6-4)
- FCC Class B



Informazioni Ordine

Modello	Codice di ordinazione	Descrizione
eTOP-MON2100P	+73MON2100P	21.5" IP66 Heavy Industrial 16:9 WXGA Zero Bezel Flush Touch Monitor

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	EPC0840	EPC1240T	EPC1540T	EPC1740T	EPC1940T
LCD Size	8.0" 4:3	12.1" 4:3	15" 4:3	17" 4:3	19" 4:3
Max. Resolution	SVGA, 800 x 600	SVGA, 800 x 600	XGA, 1024 x 768	SXGA, 1280 x 1024	SXGA, 1280 x 1024
Luminance (cd/m2)	400	500	400	350	350
Contrast Ratio	500	700	2500	800	1000
Viewing Angle (H-V)	50(U), 70(D), 70(L), 70(R)	65(U), 75(D), 80(L), 80(R)	88(U), 88(D), 88(L), 88(R)	60(U), 80(D), 80(L), 80(R)	80(U), 80(D), 85(L), 85(R)
Backlight	LED				
LCD Color	262K	16.7M	16.7M	16.7M	16.7M
Touch Screen	Resistive 5-wire				
Touch Light Transmission	82%	80%	81%	81%	81%
CPU	Intel Atom® E3826 dual core 1.46GHz	Intel® Celeron® J1900 quad core up to 2.0GHz	Intel® Celeron® J1900 quad core up to 2.0GHz	Intel® Celeron® J1900 quad core up to 2.0GHz	Intel® Celeron® J1900 quad core up to 2.0GHz
OS	Win7, Win10				
Memory	2GB DDR3L SO-DIMM module	4GB DDR3L SO-DIMM module	4GB DDR3L SO-DIMM module	4GB DDR3L SO-DIMM module	4GB DDR3L SO-DIMM module
CF Socket	1	1	1	1	1
2nd Display Output	VGA				
Ethernet (10/100/1000)	2				
Line-out	Line out				
USB 2.0/3.0	3/1	2/1	2/1	2/1	2/1
COM Port	2 x RS232/422/485	Isolation 2 x RS232/422/485	Isolation 2 x RS232/422/485	Isolation 2 x RS232/422/485	Isolation 2 x RS232/422/485
Power Switch	1/1	1/1	1	1	1
Remote Power Switch	2-pin				
Reset Button	1	1	1	1	1
Power Jack	Terminal blocks 3-pin phoenix connector				
Expansion	1 x mini-PCIe	2 x mini-PCIe	2 x mini-PCIe	2 x mini-PCIe	2 x mini-PCIe
Construction Front Panel	ABS+PC plastic front bezel				
Mounting	Panel/wall/stand/VESA 100 x 100 mm				
Power Input	+12 to 30V DC				
Power Supply Adapter	Optional				
Operating Temp.	-5°C to 50°C	-5°C to 60°C	-5°C to 60°C	-5°C to 60°C	-5°C to 60°C
Storage Temp.	-20°C to 75°C				
Operating Humidity	10%~90%, non-condensing				
IP Level	Front frame IP65				
Cut Out Size (W x H, mm)	209.6 x 176.1	304.5 x 230	371 x 297	399 x 329	436 x 366
Dimension (W x H x D, mm)	217.4 x 176.4 x 68.9	317 x 243 x 65.5	384.37 x 309.95 x 63	410.4 x 340.4 x 65.9	457.64 x 379.24 x 61.25
Net Weight (kg)	2.3	3.6	4.7	5.6	6.3
Certification	CE: EN61000-6-2/4; FCC Class A				

	IPC1040P	IPC1640P	IPC1840P	IPC2140P	IPC1570T	IPC1770T	IPC1970T	IPC1670P	IPC2170P
LCD Size	10.1" 16:9	15.6" 16:9	18.5", 16:9	21.5" 16:9	15" 4:3	17" 4:3	19" 4:3	15.6" 16:9	21.5" 16:9
Max. Resolution	WXGA 1280 x 800	HD, 1366x768	WXGA 1366 x 768	Full HD, 1920 x 1080	XGA, 1024 x 768	SXGA, 1280 x 1024	SXGA, 1280 x 1024	HD, 1366x768	Full HD, 1920 x 1080
Luminance (cd/m²)	300	400	300	300	450	350	350	400	300
Contrast Ratio	1300	500	1000	5000	800	1000	1000	500	5000
Viewing Angle (H-V)	85(U), 85(D), 85(L), 85(R)	80(U), 80(D), 85(L), 85(R)	80(U), 80(D), 85(L), 85(R)	89(U), 89(D), 89(L), 89(R)	70(U), 80(D), 80(L), 80(R)	80(U), 80(D), 85(L), 85(R)	80(U), 80(D), 85(L), 85(R)	80(U), 80(D), 85(L), 85(R)	89(U), 89(D), 89(L), 89(R)
Backlight	LED	LED	LED	LED	LED	LED	LED	LED	LED
LCD Color	262K	16.7M	16.7M	16.7M	16.2M	16.7M	16.7M	16.7M	16.7M
Touch Screen	10 x point P-Cap	10 x point P-Cap	10 x point P-Cap	10 x point P-Cap	Resistive 5-wire	Resistive 5-wire	Resistive 5-wire	10 x point P-Cap	10 x point P-Cap
Touch Light Transmission	87%	87%	87%	87%	81%	81%	80%	87%	87%
CPU	Intel Atom® quad core processor J1900, 2.0GHz	Intel Atom® quad core processor J1900, 2.0GHz	Intel Atom® quad core processor J1900, 2.0GHz	Intel Atom® quad core processor J1900, 2.0GHz	4th gen. Intel® Core™ i5/i3, LGA1150 socket	4th gen. Intel® Core™ i5/i3 LGA1150 socket	4th gen. Intel® Core™ i5/i3 LGA1150 socket	4th gen. Intel® Core™ i5/i3 LGA1150 socket	4th gen. Intel® Core™ i5/i3 LGA1150 socket
Chipset	-	-	-	-	Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87
OS	Win7, Win10	Win7, Win10	Win7, Win10	Win7, Win10	Win7, Win10	Win7, Win10	Win7, Win10	Win7, Win10	Win7, Win10
Memory	4GB DDR3 SO-DIMM module				Max. 8GB DDR3/DDR3L				
CFast Socket	1	1	1	1	1	1	1	1	1
2nd Display Output	VGA				DVI-I+DP				
PS2 KB/MS	-	-	-	-	1	1	1	1	1
Ethernet (10/100/1000)	2	2	2	2	2	2	2	2	2
Line-out	Line-out								
Line-in	-	-	-	-	Line-in	Line in	Line-in	Line-in	Line-in
Mic-in	-	-	-	-	MIC-in	MIC-in	MIC-in	MIC-in	MIC-in
USB 2.0/3.0	2/1	2/1	2/1	2/1	1 (1 in front)/4	1 (1 in front)/4	1 (1 in front)/4	-/4	-/4
COM Port	Isolation 2 x RS232/422/485				2 x RS232/422/485				
Power Switch	1	1	1	1	1	1	1	1	1
Remote Power Switch	2-pin	2-pin	2-pin	2-pin	3-pin	3-pin	3-pin	3-pin	3-pin
Reset Button	1	1	1	1	1	1	1	1	1
Power Jack	Terminal blocks 3-pin phoenix Connector								
Expansion	2 x mini-PCIe				2 x mini-PCIe/ 2 x PCI or PCIe slots				
Constr. Front Panel	Aluminum front zero bezel								
Mounting	Panel/wall/stand/VESA 100 x 100mm								
Power Input	+12 to 30V DC								
Power Supply Adapter	Optional								
Operating Temp.	-10°C to 60°C				-10°C to 50°C				
Storage Temp.	-20°C to 75°C								
Operating Humidity	10%~90%, non-condensing								
IP Level	Front frame IP66								
Cut Out (W x H, mm)	294 x 209	398 x 293	475.4 x 305.2	544 x 364	382 x 312	434.4 x 358.9	452 x 382	398 x 293	544 x 364
Dimension (W x H x D)	308 x 223 x 60.7	417.4 x 312.4 x 63.75	490.8 x 320.6 x 62.6	562.4 x 382.4 x 62.85	400 x 330 x 104.9	451 x 375.5 x 105	470 x 400 x 104.9	417.4 x 312.4 x 105.95	562.4 x 382.4 x 105.05
Net Weight (kg)	3.7	6.4	8,2	9.26	8.3	9.5	10.3	9.18	11.7
Certifications	CE: EN61000-6-2/4; FCC Class A								

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	eCC105	eCC106	eCC3600E	eCC3800E
CPU	Intel Atom® E3826 1.46GHz	Intel® Pentium® N3710 1.6GHz	3th Gen. Intel® Core™ Intel® Core i7/i5/i3 rPGA socket	6th Gen. Intel® Core™ i7/i5/i3 LGA socket
Chipset	Intel® Bay Trail-I	Intel® Braswell	Intel® Q77 PCH	Intel® Q170 PCH
Max. Memory	8GB DDR3L	8GB DDR3L	8GB DDR3/DDR3L	16GB DDR4
HDD Space	1 x 2.5" SATA 2.0 HDD bay	1 x 2.5" SATA HDD bay	1x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
CFast Socket	1 (external, SATA 2.0 CFast)	1 (external, CFast)	1 (External, CFast)	1 (external, M.2)
eMMC	-	-	-	-
VGA	-	-	1	-
LVDS	-	-	-	-
DVI	1 (DVI-I)	1 (DVI-D)	1 (DVI-D)	1 (DVI-D)
HDMI	1	1	-	1
DisplayPort	-	1	2	1
USB	2 x USB 2.0, 1 x USB 3.0	4 x USB 3.0	2 x USB 2.0 /4 x USB 3.0	4 x USB 3.0, 2 x USB 2.0
Serial Port	4	4	6	2
RS422/485	2	2	1	2
RS422/485 Isolation	-	-	-	2
mini-PCIe	1	1	1	2
M.2	-	-	-	1
SIM Card Holder	1	1	1	1
GPIO	4-in/4-out (internal)	4-in/4-out (internal)	4-in/4-out (internal)	4-in/4-out (internal)
LAN Ports	2 x GbE	2 x GbE	2 x GbE	3x GbE
Audio	Mic-in & Line-out	Mic-in & Line-out	Mic-in & Line-out	Mic-in & Line-out
Power Input Range	ATX, DC + 9V ~ 30VDC	ATX, DC + 9V ~ 30VDC	ATX, DC +9 ~ 30V	ATX, DC +9 ~ 30V
Power Supply Adapter	Optional	Optional	Optional	Optional
Expansion	-	-	1 x PCIe x4	1 x PCIe x4
Win7 32-bit	V	V	V	V
Win7 64-bit	V	V	V	V
Win10 32-bit	V	V	V	-
Win10 64-bit	V	V	V	V
Operating temp. (w/ HDD) Based on IEC 60068 STD	-20°C to 70°C	-5°C to 55°C	-5°C to 55°C	-5°C to 55°C
System Dimension (W x D x H, mm)	185 x 131 x 54	185 x 131 x 54	215 x 272 x 93	215 x 272 x 93
Carton Dimension (W x D x H, mm)	259 x 233 x 129	245 x 318 x 152	378 x 342 x 269	378 x 342 x 269
Net Weight (kg)	1.3	1.3	4.5	4.5
Gross Weight (kg)	2	2	5.9	5.9

	eCCF105	eCCF200	eCCF300
CPU	Intel Atom® x5-E3930 1.8GHz	Intel® Celeron® J1900 2.0GHz	6th Gen. Intel® Core™ i7/i5/i3 LGA socket (Skylake-S)
Chipset	Intel® Apollo Lake-I	Intel® Bay Trail-D	Intel® Q170
Max. Memory	Onboard 4GB DDR3L	8GB DDR3L	8GB DDR4
TPM	-	-	-
NVRAM	-	-	-
Storage	Onboard eMMC 16GB	1 x 2.5" SATA HDD bay	2 x 2.5" SATA HDD bay
CFast Socket	-	-	1 (external, CFast)
SD Card	1	1	-
DVI	-	1 (DVI-I)	1 (DVI-D)
HDMI	1	-	1
DisplayPort	-	1	-
USB	4 x USB 3.0	3 x USB 2.0, 1 x USB 3.0	2 x USB2.0, 4 x USB3.0
Serial Port	2	2	2
RS422/485	2 (RS232/422/485)	2 (RS232/422/485)	2 (RS232/422/485)
RS422/485 Isolation	2 (2.5KV isolation)	2 (2.5KV isolation)	2 (2.5KV isolation)
mini-PCIe	2 x Full size	2	2
SIM Card Holder	1	1	1
GPIO	4-in/4-out (internal)	4-in/4-out (internal)	4-in/4-out (internal)
LAN Port	2 x GbE (Intel® I210-IT)	2 x GbE	3 x GbE
Audio	-	Line-out (internal)	Mic-in & Line-out
Fieldbus I/O Support	-	1 (optional)	1 (optional)
Power Input Range	ATX, DC +24V	ATX, DC +24V	ATX, DC +24V
Win7 32-bit	-	V	V
Win7 64-bit	-	V	V
Win10 32-bit	-	V	V
Win10 64-bit	V	V	V
Power Supply Adapter	Optional	Optional	Optional
Expansion	-	-	-
Operating temp. (w/ HDD) Based on IEC 60068 STD	-5°C to 55°C	-5°C to 55°C	-5°C to 55°C
System Dimension (W x D x H, mm)	46.2 x 100 x 120	85 x 157 x 214	90 x 185 x 251
Carton Dimension (W x D x H, mm)	223 x 191 x 206	346 x 265 x 200	389 x 329 x 251
Net Weight (kg)	0.7	2.3	3.5
Gross Weight (kg)	1.6	3.3	4.9

Model	MON1200T	MON1500T	MON1700T	MON1900T	MON1600P	MON1800P	MON2100P
LCD Size	12.1" 4:3	15" 4:3	17" 4:3	19" 4:3	15.6" 16:9	18.5" 16:9	21.5" 16:9
Max. Resolution	SVGA, 800 x 600	XGA, 1024 x 768	SXGA, 1280 x 1024	SXGA, 1280 x 1024	WXGA, 1366 x 768	WXGA, 1366 x 768	Full HD, 1920 x 1080
Luminance (cd/m2)	450	400	350	350	300	400	300
Contrast Ratio	700	2500	800	1000	500	1000	5000
Viewing Angle (H-V)	65 (U), 75 (D), 80 (L), 80 (R)	88(U), 88(D), 88(L), 88(R)	60(U), 80(D), 80(L), 80(R)	80(U), 80(D), 85(L), 85(R)	80(U), 80(D), 85(L), 85(R)	80(U), 80(D), 85(L), 85(R)	89(U), 89(D), 89(L), 89(R)
Backlight	LED	LED	LED	LED	LED	LED	LED
LCD Color	16.2M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
Touch Screen	Resistive 5-wire	Resistive 5-wire	Resistive 5-wire	Resistive 5-wire	10 Point P-Cap	10 Point P-Cap	10 Point P-Cap
Touch Light Transmission	80%	81%	81%	81%	87%	87%	87%
Touch Screen I/F	RS 232, USB	RS 232, USB	RS232, USB	RS232, USB	USB	USB	USB
OSD Function	OSD keypad	OSD keypad	OSD keypad	OSD keypad	OSD Keypad	OSD Keypad	OSD Keypad
Video Input	VGA; DVI-D	VGA; DVI-D	VGA; DVI-D	VGA; DVI-D	VGA; DVI-D; DP	VGA; DVI-D; DP	VGA; DVI-D; DP
Power Jack	Terminal blocks 3-pin phoenix connector	Terminal blocks 3-pin phoenix connector	Terminal blocks 3-pin phoenix connector	Terminal blocks 3-pin phoenix connector	"Terminal Blocks 3-Pin Phoenix Connector"	"Terminal Blocks 3-Pin Phoenix Connector"	"Terminal Blocks 3-Pin Phoenix Connector"
Construction Front Panel	ABS+PC plastic front bezel	ABS+PC plastic front bezel	ABS+PC plastic front bezel	ABS+PC plastic front bezel	Aluminum Front Zero Bezel	Aluminum Front Zero Bezel	Aluminum Front Zero Bezel
Mounting	Panel/wall/stand/VESA 100 x 100 mm						
Power Input	+12 to 24V DC	+12 to 24V DC	+12 to 24V DC	+12 to 24V DC	+12~30VDC	+12~30VDC	+12~30VDC
Power Supply Adapter	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Operating Temp.	-5°C to 50°C	-5°C to 50°C	-5°C to 50°C	-5°C to 50°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
Storage Temp.	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C
Operating Humidity	10%~90%, non-condensing	10%~90%, non-condensing	10%~90%, non-condensing	10%~90%, non-condensing	10%~90%, Non-condensing	10%~90%, Non-condensing	10%~90%, Non-condensing
IP Level	Front frame IP65	Front frame IP65	Front frame IP65	Front frame IP65	Front Frame IP66	Front Frame IP66	Front Frame IP66
Cut Out Size (W x H, mm)	304.5 x 230	371 x 297	399 x 329	436 x 366	401 x 296	475.4 x 305.2	547 x 367
Dimension (W x H x D, mm)	317 x 243 x 53.5	384.37 x 309.95 x 51	410.4 x 340.4 x 53.9	457.64 x 379.24 x 49.15	417.4 x 312.4 x 51.75	490.8 x 320.6 x 50.65	562.4 x 382.4 x 50.85
Net Weight (kg)	2.9	3.9	4.8	5.5	5.48	6.24	7.87
Certifications	CE; FCC Class B	CE; FCC Class B	CE; FCC Class B	CE; FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B

La vostra sfida

La vostra soluzione

La nostra tecnologia