ICO500-518

Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, and Dual Modular I/O Expansion Design

Features

- 7th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Kaby Lake-U)
- 2 PIM (Plug-in I/O Module) slots
- Fanless and compact design
- Wide operating temperature range from -40°C to +70°C
- 12 to 48 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- 1 swappable 2.5” SATA drive tray

Specifications

- Standard Color: Silver
- Construction: Aluminum extrusion and heavy-duty steel, IP40
- CPU: Intel® Core™ i7-7600U 2C @ 2.8GHz
  - Intel® Core™ i5-7300U 2C @ 2.6GHz
  - Intel® Core™ i3-7100U 2C @ 2.4 GHz
  - Intel® Celeron® 3965U 2C @ 2.2 GHz
- System Memory: 1 x DDR4-1866/2133 SO-DIMM, up to 16GB
- Chipset: SoC integrated
- BIOS: AMI
- System I/O Outlets:
  - Top Side: 1 x DC power input with terminal block, 4 x Antenna opening
  - Bottom Side: External SIM slot & CFast card
  - Front Side:
    - 1 x HDMI
    - 2 x GbE LAN
    - 4 x USB 3.0
    - 1 x VGA
    - 1 x DB9 RS-232/422/485
    - 1 x Isolated DIO (4-in/4-out)
    - 1 x 2.5” SATA drive tray
    - 2 x PIM slot
- Watchdog Timer: 255 levels, 1 to 255 sec.
- Storage:
  - 1 x Swappable 2.5” SATA drive (9.5 mm height)
  - ** DIN-rail mounting with SSD
  - 1 x External CFast card
- Expansion Interface:
  - 2 x Full-size PCI Express Mini Card slot
  - 1 x External SIM card slot
- System Indicator:
  - 1 x LED indicator for system power
  - 1 x LED indicator for HDD activities
  - 2 x Programmable
- Power Supply: 12 to 48 VDC, OVP, UVP, OCP, RPP power protection design
- Operating Temperature:
  - 40°C to +70°C (-40°F to +158°F)
  - 40°C to +60°C (-40°F to +140°F) with PIM200
- Humidity: 10% to 95%, non-condensing
- Vibration Endurance (operational):
  - 3 Grms with SSD, DIN-rail/wall mounting (5 to 500Hz, X/Y/Z direction, random)
- Weight (net/gross): TBD
- Certifications: CE (Class A), FCC

Dimensions: 145 mm (5.70”) (W) x 125 mm (4.92”) (D) x 155 mm (6.10”) (H)

ECS Support: Windows® 10
- Linux support package
- Remote Management Software: AXView 2.0/3.0
- Intelligent Remote Management Solution for IoT
- Mounting: DIN-rail (standard)
- Wall mount (optional)

Ordering Information

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ICO500-518-Celeron</td>
<td>Fanless embedded system with Intel® Celeron® 3965U 2.2 GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5” SATA tray, HDMI, VGA</td>
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<tr>
<td>ICO500-518-i3</td>
<td>Fanless embedded system with Intel® Core™ i3-7100U 2.4 GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5” SATA tray, HDMI, VGA</td>
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<tr>
<td>ICO500-518-i5</td>
<td>Fanless embedded system with Intel® Core™ i5-7300U 2.6GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5” SATA tray, HDMI, VGA</td>
</tr>
<tr>
<td>ICO500-518-i7</td>
<td>Fanless embedded system with Intel® Core™ i7-7600U 2.8GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5” SATA tray, HDMI, VGA</td>
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## Ordering Information

<table>
<thead>
<tr>
<th>I/O Modules</th>
<th>Optional</th>
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<tbody>
<tr>
<td>PIM100  8 x isolated, 4-wire COM (RS-232/422/485)</td>
<td>2.5&quot; SATA SSD 16GB or above</td>
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<td>CFast™ 16GB or above</td>
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<td>DDR4 SO-DIMM 4GB to 16GB</td>
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<td>PIM101  8 x isolated CANbus 2.0 A/B</td>
<td></td>
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<td>PIM200  4 x isolated, 4-wire COM (RS-232/422/485) &amp; isolated 9-in/8-out DIO</td>
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<td>PIM700  8 x RJ-45 Gb Ethernet</td>
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* Specifications and certifications may vary based on different requirements.

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### Dimensions

![Dimensions Diagram]

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