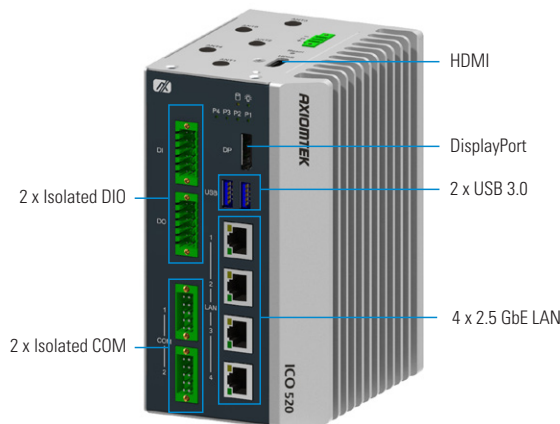


ICO520 NEW

DIN-rail Fanless Embedded System with Intel® Core™ i7/i5/i3/Celeron® Processor, 4 LAN, 1 HDMI, 1 DisplayPort Isolated COM and DIO

Features

- High performance with fanless & DIN-rail design
- 12th gen Intel® Core™ i7/i5/i3 or Celeron® processor (Alder Lake-P)
- 4 isolated COM, isolated DIO (8-in/8-out), 4 2.5 GbE LAN
- Wide operating temperature range from -40°C to +70°C
- 9 to 36 VDC, typical 12-24V power input with OVP, UVP, OCP, RPP
- Supports TPM 2.0
- Supports cold boot at -40°C



▲ Front view



Specifications

| | | | | | | | | | | | | | |
|---------------------|---|--------|---|---------|--------------------|-----|-------------|----------|--|-----|-----------------------------|--------|---------------------|
| Standard Color | Silver | | | | | | | | | | | | |
| Construction | Extruded aluminum and heavy-duty steel, IP40 | | | | | | | | | | | | |
| CPU | Intel® Core™ i7-1265UE (up to 4.7GHz/10C/15W) Intel® Core™ i5-1245UE (up to 4.4GHz/10C/15W) Intel® Core™ i3-1215UE (up to 4.4GHz/6C/15W) Intel® Celeron® 7305E (1GHz/5C/15W) | | | | | | | | | | | | |
| Chipset | SoC integrated | | | | | | | | | | | | |
| System Memory | 1 x DDR4-3200 SO-DIMM, up to 32GB | | | | | | | | | | | | |
| BIOS | AMI | | | | | | | | | | | | |
| TPM | TPM 2.0 | | | | | | | | | | | | |
| System I/O Outlet | <table border="0"> <tr> <td>Serial</td> <td>4 x Isolated RS-232/422/485 (4-wire, Phoenix Type) Isolation voltage: 1.5 kV</td> </tr> <tr> <td>Display</td> <td>1 x HDMI 1 x DP</td> </tr> <tr> <td>USB</td> <td>2 x USB 3.0</td> </tr> <tr> <td>Ethernet</td> <td>4 x RJ-45 isolated 2.5 GbE LAN (Intel® i226-IT) Isolation voltage: 1.5 kV</td> </tr> <tr> <td>DIO</td> <td>1 x Isolated 8-in/8-out DIO</td> </tr> <tr> <td>Others</td> <td>5 x Antenna opening</td> </tr> </table> | Serial | 4 x Isolated RS-232/422/485 (4-wire, Phoenix Type) Isolation voltage: 1.5 kV | Display | 1 x HDMI 1 x DP | USB | 2 x USB 3.0 | Ethernet | 4 x RJ-45 isolated 2.5 GbE LAN (Intel® i226-IT) Isolation voltage: 1.5 kV | DIO | 1 x Isolated 8-in/8-out DIO | Others | 5 x Antenna opening |
| Serial | 4 x Isolated RS-232/422/485 (4-wire, Phoenix Type) Isolation voltage: 1.5 kV | | | | | | | | | | | | |
| Display | 1 x HDMI 1 x DP | | | | | | | | | | | | |
| USB | 2 x USB 3.0 | | | | | | | | | | | | |
| Ethernet | 4 x RJ-45 isolated 2.5 GbE LAN (Intel® i226-IT) Isolation voltage: 1.5 kV | | | | | | | | | | | | |
| DIO | 1 x Isolated 8-in/8-out DIO | | | | | | | | | | | | |
| Others | 5 x Antenna opening | | | | | | | | | | | | |
| Extension Interface | 1 x M.2 (USB3.0, PCIe; for 5G & NVMe) 1 x Full-size Rev.1.2 PCI Express Mini Card slot: USB, PCIe (for LTE/Wi-Fi module) 1 x Full-size Rev.1.2 PCI Express Mini Card slot: USB/mSATA (for Wi-Fi/mSATA) 2 x SIM slot (1 for M.2; 1 for full-size PCI Express Mini Card) | | | | | | | | | | | | |

| | | |
|--------------------------|---|---|
| Storage | SATA Drive | 1 x mSATA (occupied 1 x PCI Express Mini Card slot) 1 x Internal 2.5" SATA drive (9.5 mm height) 1 x 8G eMMC on board |
| Watchdog Timer | 255 levels, 1 to 255 sec. | |
| Power Supply | 1 x Terminal block, 9 to 36 VDC, typical 12/24V | |
| System Indicators | 1 x LED indicator for SATA drive 1 x LED indicator for power 4 x Programmable LED | |
| Operating Temperature | -40°C to +70°C (-40°F to +158°F) Cold boot at -40°C | |
| Humidity | 10% to 95% | |
| Vibration Endurance | 3 Gms with storage (5 to 500Hz, X/Y/Z direction; random, operating) | |
| Dimensions (TBC) | 83 mm (W) x 110 mm (D) x 155 mm (H) | |
| Weight (net/gross) (TBC) | 1.0 kg (2.2 lb)/1.50 kg (3.3 lb) | |
| Certifications | CE (Class A), FCC (Class A) | |
| EMC | CE/FCC | |
| EOS Support | Windows® 10 IoT, Linux | |

* Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Ordering Information

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|--------|--|
| IC0520 | DIN-rail fanless embedded system with Intel® Core™ i7/i5/i3/Celeron® processor, 4 LAN, isolated COM and DIO, and 2 display outputs |
|--------|--|

Dimensions (TBC)

