ICO300-83B
Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350/Pentium® Processor N4200, Isolated COM, LAN and DIO

Features

● Cost-effective with fanless and cableless design
● Intel® Celeron® processor N3350/Pentium® processor N4200
● 2 or 4 isolated COM, 4 USB, 2 GbE LAN
● 8-bit programmable DIO for IoT gateway applications (optional)
● Wide operating temperature range from -40°C to +70°C
● 12 to 24 VDC wide range power input
● OVP, UVP, OCP, RPP power protection design
● AMS.AXView intelligent remote monitoring software for IIoT

Specifications

Standard Color Silver
Construction Extruded aluminum and heavy-duty steel, IP40
CPU Intel® Celeron® processor N3350 (1.1 GHz, Dual Core)
Intel® Pentium® processor N4200 (1.1 GHz, Quad Core) (by request)
System Board SBC8783B
System Memory 1 x DDR3L-1866 SO-DIMM, up to 8GB
BIOS AMI UEFI BIOS
System I/O Outlet Serial 4 x isolated RS-232/422/485 (ICO300-83B-4I COM)
2 x isolated RS-232/422/485 (ICO300-83B-2I COM)
4 x RS-232/422/485 (ICO300-83B-4 COM)
COM port support High-speed mode up to 1.5M baud rate
Interface select by BIOS
USB 4 x USB 3.0
RTC Battery onboard
Storage 2.5” SATA drive (9.5 mm height)
mSATA shared with mPCIe slot
LAN 2 x 10/100/1000 Mbps Ethernet
(Intel® i211-AT for ICO300-83B)
(Intel® i210-IT for ICO300-83B-WT)
Display 1 x VGA or 1 x HDMI
DIO 1 x DI/DO (8-bit programmable, DB9 female connector, optional)
Voltage is 5V TTL-level
Programming:
I/O sink current is 10mA (max.)
Input/output can be programming
Power Input 1 x DC power input with terminal block

Extension Interface 1 x Full-size PCI Express Mini Card slot with SIM slot
(for wireless module)
1 x Full-size PCI Express Mini Card slot with mSATA (for wireless module or mSATA)
Watchdog Timer 255 levels, 1 to 255 sec.
System Indicator Power, Active
Power Supply 12 to 24 VDC, 2.82 to 1.34A (ICO300-83B-N3350)
12 to 24 VDC, 3.27 to 1.62A (ICO300-83B-N4200)
Protection: OVP (±20%), reverse protection
Operating Temperature -20°C to +70°C (-4°F to +158°F)
-40°C to +70°C (-4°F to +158°F) (ICO300-83B-N3350-WT)
-40°C to +60°C (-4°F to +140°F) (ICO300-83B-N4200-WT)
Humidity 10% to 95%
Vibration Endurance 2 Gms (5 to 500Hz, amplitude 0.35 mm; operation/storage/transport)
Weight (net/gross) 1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications CE, FCC
Dimensions 48 mm (1.88”) (W) x 110 mm (4.33”) (D) x 155 mm (6.1”) (H)
EOS Support Windows® 10 IoT, Linux support package (by request)
Software Support AMS.AXView

Features

● Robust DIN-rail Fanless with Intel® processor
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### Ordering Information

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>ICO300-83B-N3350-4ICOM-WT-DC (P/N: E22C300119)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 4 isolated COM, 2 LAN, 4 USB and VGA (-40°C to +70°C)</td>
</tr>
<tr>
<td>ICO300-83B-N3350-4ICOM-WT-DC (P/N: E22C300120)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Pentium® processor N4200, 4 isolated COM, 2 LAN, 4 USB and VGA (-40°C to +60°C)</td>
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<tr>
<td>ICO300-83B-N3350-4COM-DC (P/N: E22C300121)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 4 COM, 2 LAN, 4 USB and VGA (-20°C to +70°C)</td>
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<td>ICO300-83B-N3350-4COM-DC (P/N: E22C300122)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 1.1 GHz, 4 isolated COM, 2 LAN, 4 USB and VGA (-20°C to +70°C)</td>
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<tr>
<td>ICO300-83B-N3350-2COM-HDMI-DC (P/N: E22C300124)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 1.1 GHz, 2 isolated COM, 2 LAN, 4 USB and HDMI (-20°C to +70°C)</td>
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<td>ICO300-83B-N3350-2COM-HDMI-DC (P/N: E22C300127)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 isolated COM, 2 LAN, 4 USB and HDMI (-20°C to +70°C)</td>
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<td>ICO300-83B-N3350-2COM-DC (P/N: E22C300128)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 isolated COM, 2 LAN, 4 USB and HDMI (-20°C to +70°C)</td>
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<td>ICO300-83B-N3350-2COM-DC (P/N: E22C300129)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 COM, 2 LAN, 4 USB and VGA (-20°C to +70°C)</td>
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<tr>
<td>ICO300-83B-N3350-2COM-2CAN-DC (P/N: E22C300130)</td>
<td>Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 COM, 2 LAN, 2 CAN, 4 USB and VGA (-20°C to +70°C)</td>
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### Optional

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<tr>
<td>mSATA 4GB and above</td>
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<td>2.5&quot; SATA drive</td>
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<tr>
<td>DDR3L SO-DIMM 2GB to 8GB</td>
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<td>IB120300A0E ICO300/310/320 Wall Mount Bracket Kit</td>
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<tr>
<td>IB16N3229AE 3G/GPS UC20G Kit for tBOX (3G/GPS ANT)</td>
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</tbody>
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* Specifications and certifications may vary based on different requirements.

### Dimensions

![Dimensions Diagram](image-url)