

# ICO120-83D

Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, COM or CAN, 2 LAN, 2 USB and DIO

## Features

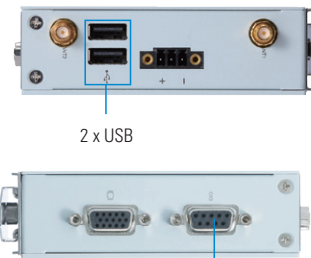
- Extreme cost-effective with fanless and cableless design
- Intel® Celeron® processor N3350, reliable F1 stepping version CPU
- 1 COM or CAN, 2 USB, 2 GbE LAN
- 8-bit programmable DIO for IoT gateway applications
- Wide operating temperature range from -20°C to +70°C
- 12 to 24 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- Supports SocketCAN
- AMS.AXView intelligent remote monitoring software for IIoT
- Microsoft Azure IoT Edge certified



▲ Front view



▲ Rear view



2 x USB

1 x DI/DO  
(8-bit programmable)

## Specifications

Standard Color	Sliver	
Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	Intel® Celeron® N3350 2C @1.1 GHz, TDP: 6W	
Chipset	SoC integrated	
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	
BIOS	AMI	
TPM	TPM 2.0	
System I/O Outlet	Serial	1 x DB9 RS-232/422/485*
	CAN	1 x DB9 CANBus 2.0 A/B, supports SocketCAN*
	Display	1 x VGA
	USB	2 x USB 2.0
	Ethernet	2 x RJ-45 isolated* 10/100/1000 Mbps Ethernet (Intel® i211-AT) *isolation voltage: 1.5 kV
	DIO	1 x DB9 8-bit programmable DIO
	Others	2 x Antenna opening
Extension Interface	1 x Full-size Rev. 1.2 PCI Express Mini Card slot: • USB/PCIe with SIM socket	
	1 x Half-size Rev. 1.2 PCI Express Mini Card slot: • mSATA/USB/PCIe	
Storage	SATA Drive	1 x mSATA (occupied 1 x PCI Express Mini Card slot)
	eMMC	Optional
Watchdog Timer	255 levels, 1 to 255 sec.	

Power	Power Supply	1 x Terminal block, 12 to 24 VDC
	Power	12 to 24 VDC, 1.39-0.72A
	Consumption	
System Indicator	1 x LED indicator for SATA drive activity	
	1 x LED indicator for power	
Operating Temperature	-20°C to +70°C (-4°F to +158°F) with W.T. peripheral**	
Humidity	0% to 95%	
Vibration Endurance	2 Gms with storage (5 to 500Hz, X/Y/Z direction; random, operating)	
Weight (net/gross)	0.3 kg (0.67 lb)/0.45 kg (0.99 lb)	
Certifications	CE (Class A), FCC (Class A)	
EMC	CE/FCC	EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)
	Dimensions	31 mm (1.22") (W) x 100 mm (3.93") (D) x 125 mm (4.92") (H)
EOS Support	Windows® 10 IoT, Linux	
Software Support	AMS.AXView	

\* See Ordering information

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

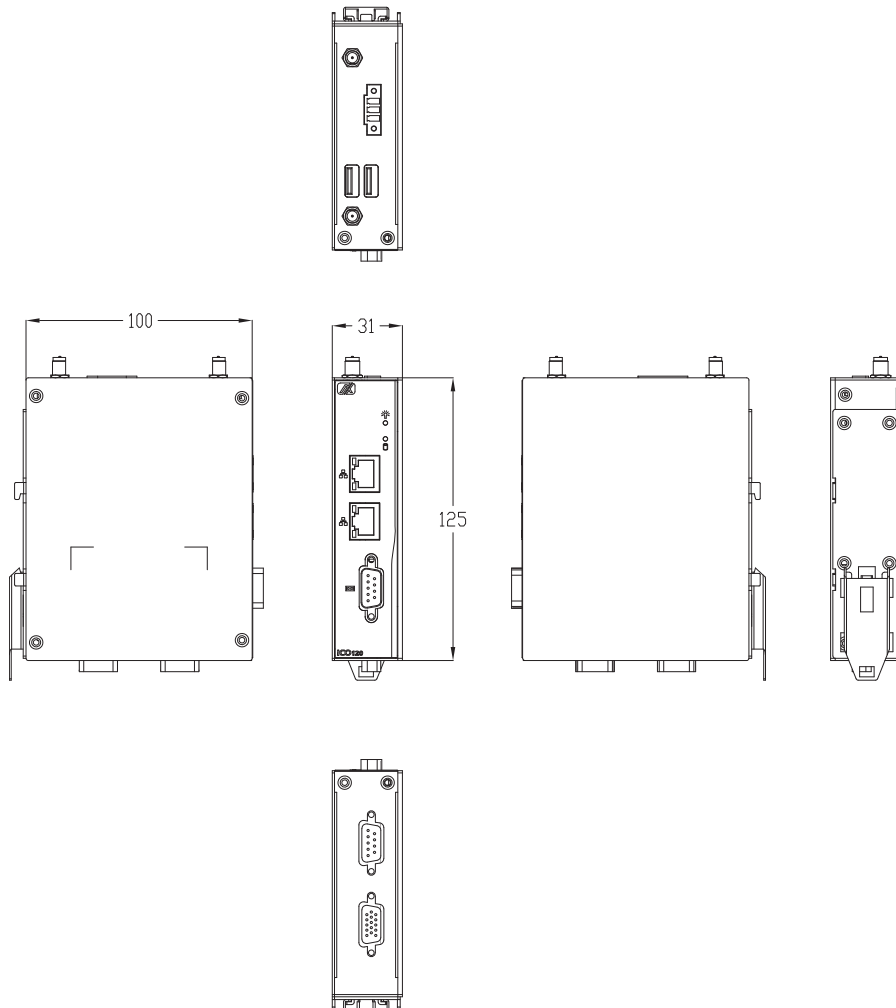
## Ordering Information

Standard	
IC0120-83D-N3350-COM-DIO-DC (P/N: E22C120106)	Robust DIN-rail fanless embedded system with Intel® Celeron® N3350 processor, 1 COM, 2 LAN, 2 USB and 1 DIO, operating temperature from -20 to 70°C, and TPM 2.0 reserved
IC0120-83D-N3350-CAN-DIO-DC (P/N: E22C120107)	Robust DIN-rail fanless embedded system with Intel® Celeron® N3350 processor, 1 CANbus 2.0 A/B, 2 LAN, 2 USB and 1 DIO, operating temperature from -20 to 70°C, TPM 2.0 reserved, and SocketCAN supported
E22C120108_IC0120-83D-N3350-COM-DIO-DC-WT (P/N: E22C120108)	Robust DIN-rail fanless embedded system with Intel® Celeron® N3350 processor, 1 COM, 2 LAN, 2 USB and 1 DIO, operating temperature from -40 to 70°C, and TPM 2.0 reserved

Optional		
Communication Modules	8812C300GA0E	3G UC20GKit tBOX/ICO (20) (E)
	8812C300HA0E	3G/GPS UC20GKit tBOX/ICO (20) (E)
	8812C1200A0E	AP12356 Wi-Fi kit for tBOX/ICO (E)
	8812C1201A0E	AP12356 WT Wi-Fi kit for tBOX/ICO (E)
	8816N8108A0E	LTE MC7430 (EU) kit for tBOX (E)
	8816N8104A0E	LTE MC7455 (US) kit for tBOX810 (E)
	8812C3008A0E	LTE SIM7100C (TW) with extent antenna for ICO300 (E)
AC to DC Adapter	8812C300IA0E	LTE SIM7100JC kit for ICO (20) JPN SFP (E)
	8812C300EA0E	LTE SIMCOM SIM7100C (TW) for ICO300 SFP (E)
	8812C300DA0E	LTE SIMCOM SIM7100E (EU) for ICO300 SFP (E)
50956A24040E	Adapter 12V36W FSP036-RHBN3 with wire type	

\* Specifications and certifications may vary based on different requirements.

## Dimensions



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Axiomtek:](#)

[ICO120-83D-N3350-WT-DC](#) [ICO120-83D-N3350-CAN-DC](#) [ICO120-83D-N3350-CAN-WT-DC](#) [ICO120-83D-N3350-DC](#) [ICO120-83D-N3350-COM-WT](#) [ICO120-83D-N3350-CAN](#) [ICO120-83D-N3350-COM](#) [ICO120-83D-N3350-CAN-WT](#)