

ICO320-83C

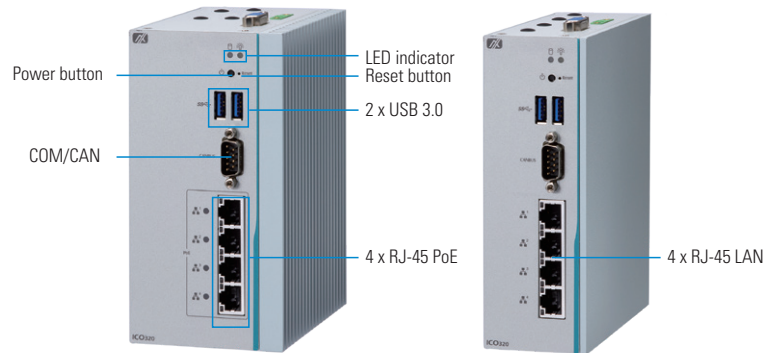
Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, COM, CAN, PoE LAN and DIO

Features

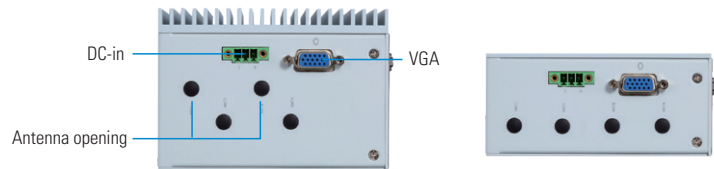
- Cost-effective with fanless and cableless design
- Intel® Celeron® processor N3350 processor, reliable F1 stepping version CPU
- 4 RJ-45 Gigabit PoE ports
- 8-bit programmable DIO for IoT gateway applications
- Wide operating temperature range from -40°C to +70°C
- 12 to 24 VDC wide range power input
- Supports SocketCAN
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Bottom view



▲ Front view



▲ Top view (PoE version)



▲ Top view (LAN version)

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion 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 slot, up to 8GB	
BIOS	AMI	
TPM	TPM 2.0	
System I/O Outlet	Serial	1 x DB9 serial console or RS-232/422/485 1 x DB9 RS-232/422/485 (by SKU optional)
	Display	1 x VGA
	USB	2 x USB 3.0
	Ethernet	4 x RJ-45 isolated* 10/100/1000 Mbps Ethernet (Intel® i211-AT) *isolation voltage: 1.5 kV
	PoE	PoE power output max. 30W 802.3af class 2, 7.5W, max. 4 ports 802.3af class 3, 15.4W, max. 2 ports 802.3at class 4, 30W, max. 1 port
	DIO	1 x DB9 8-bit programmable DIO
	CAN	1 x DB9 CANBus 2.0 A/B, support SocketCAN (by SKU optional)
	Others	4 x Antenna opening
Expansion Interface	1 x half-size Rev.1.2 PCI Express Mini Card slot: mSATA/USB/PCIe 1 x full-size Rev.1.2 PCI Express Mini Card slot: USB/PCIe with SIM socket	
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)

Watchdog Timer	255 levels, 1 to 255 sec.
Power	Power Supply 1 x DC power input with terminal block
	Power PoE SKU**: 12-24Vdc, 4.05-2.05A
	Consumption LAN SKU**: 12-24Vdc, 1.6-0.81A
PoE (PSE, Power Sourcing Equipment)*	4 x RJ-45 PoE, output max. 30W supports PoE & PoE+ • PoE (802.3af 15.4W/port) • PoE+ (802.3at 30W/port)
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral***
Humidity	0% to 95%, non-condensing
Vibration Endurance	2 Gms with storage (5 to 500Hz, X/Y/Z direction; random, operating)
Dimensions	PoE SKU**: 77 mm (3.03") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
	LAN SKU**: 48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
Weight (net/gross)	PoE SKU**: 1.2 kg (2.2 lb)/1.70 kg (3.3 lb) LAN SKU**: 1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE (Class A), FCC (Class A) compliant
EMC	CE/FCC EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)
EOS Support	Windows® 10 IoT, Linux
Software Support	AMS.AXView

* For PoE SKU

** See ordering info

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

Ordering Information

Standard	
IC0320-83C-N3350-4POE-CAN-WT-DC (P/N: E22C320106)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 (1.1GHz), 1 COM, 4 RJ-45, PoE, GbE LAN, 2 USB, VGA, CAN, operating temperature from -40°C to 70°C, TPM 2.0 reserved, and SocketCAN supported
PoE SKU	
IC0320-83C-N3350-4LAN-COM-CAN-WT-DC (P/N: E22C320107)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 (1.1GHz), 1 COM, 4 RJ-45, GbE LAN, 2 USB, VGA, CAN, operating temperature from -40°C to 70°C, TPM 2.0 reserved, SocketCAN supported
Non-PoE LAN SKU	
IC0320-CSTD-1 (P/N: E22C320108)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 (1.1GHz), 2 COM, 4 RJ-45, GbE LAN, 2 USB, VGA, operating temperature from -40°C to 70°C, TPM 2.0 reserved, and SocketCAN supported
Non-PoE LAN SKU	

* Specifications and certifications may vary based on different requirements.

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)
	8812C300IA0E LTE SIM7100JC kit for ICO (20) JPN SFP (E)
	8812C300EA0E LTE SIMCOM SIM7100C (TW) for ICO300 SFP (E)
AC to DC Adapter	8812C300DA0E LTE SIMCOM SIM7100E (EU) for ICO300 SFP (E)
	50906D24000E Adapter 24V/120W, wire only, FSP120-AAAN3

* Specifications and certifications may vary based on different requirements.

Dimensions

