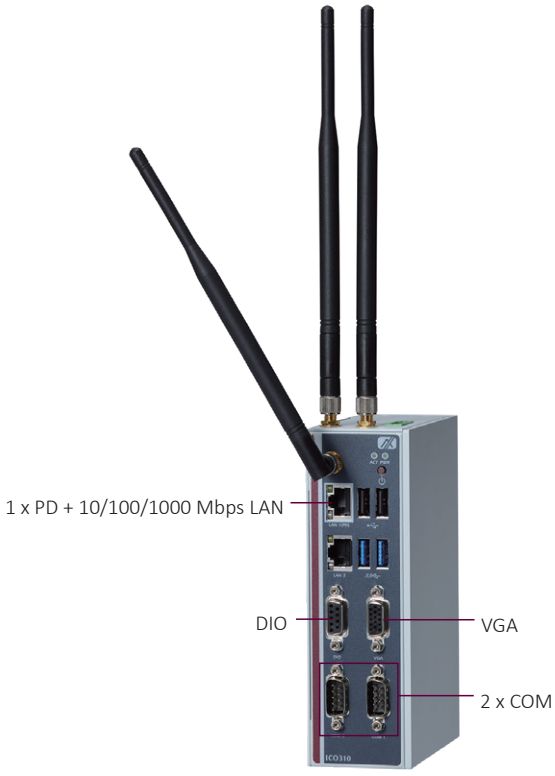
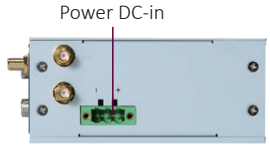
ICO310

Robust DIN-Rail Fanless Embedded System with Intel® Celeron® Processor N3160, 2 COM, 4 USB, 2 GbE LAN (1 PoE PD), DIO, and RTC



▲ Front view

▲ Rear view



▲ Top view

Fanless | Wide Temp. | IP40 | EN 60950 | Low Power | EAPI

Features

- Cost-effective with fanless and cableless design
- Intel® Celeron® processor N3160 (1.6 GHz/4-core)
- 2 RS-232/422/485 ports
- 4 USB ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 1 PoE PD compliant with IEEE 802.3at standard through LAN 1
- 1 DIO port
- 2 PCI Express Mini Card slots (3G/GPRS & Wi-Fi)
- 1 mSATA & SATA SSD (or HDD)
- 12 to 24 VDC wide range power input
- Axiomtek EAPI for intelligent remote monitoring software integration

Specifications

Standard Color	Silver	
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	Intel® Celeron® processor N3160 (1.6 GHz/4-core)	
System Board	SBC87887	
System Memory	1 x DDR3L-1600 SO-DIMM, up to 8GB	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial	2 x RS-232/422/485 with DB9 connector interface selected by BIOS Supports auto flow control in RS-485 mode
	USB	2 x USB 3.0 2 x USB 2.0
	RTC	Battery onboard
	Storage	1 x mSATA 1 x SATA SSD (or HDD)
	LAN	2 x 10/100/1000 Mbps Ethernet (Intel® I210-IT) 1 x PoE PD compliant with IEEE 802.3at standard through LAN 1 (ICO310-N3160-PD-DC)
	Power Input	DC terminal block: 12 to 24V DC-In PoE: IEEE 802.3at
	Display	VGA (DB15 connector)
	Wireless	1 x full-size PCI Express Mini Card slot 1 x full-size PCI Express Mini Card slot with mSATA 1 x SIM Card socket 3 x antenna
	DIO	1 x DIO - DB9 8-bit programming connector - The voltage of TTL is 5V - Without isolation function - The programming is as follow: 1. I/O sink current is 8 to 10mA (output drive current ±50 mA) 2. Input/output can programming
Watchdog Timer	255 levels, 1 to 255 sec.	
System Indicator	Power, active, and COM (TX/RX)	
Power Supply	Power input range: 12 to 24 VDC	
	Power input rating: 12 to 24 VDC, 2.09 to 1.09A	
	Power protection: DC version OVP, reverse protection	
Operating Temperature	-20°C to +60°C (-4°F to +140°F) *The frequency of CPU will down when system operating temperature over +55°C (ICO310-N3060, ICO310-N3060-PD, ICO310-N3160) or over +50°C (ICO310-N3160-PD)	
Relative Humidity	10% to 95% relative humidity, non-condensing	
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)	
Dimensions (W x D x H)	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	
Mounting	DIN-rail, wall mount	
OS Support	Windows® 10 IoT, Linux	
Certifications	CE, FCC	
Software Support	Axiomtek EAPI	

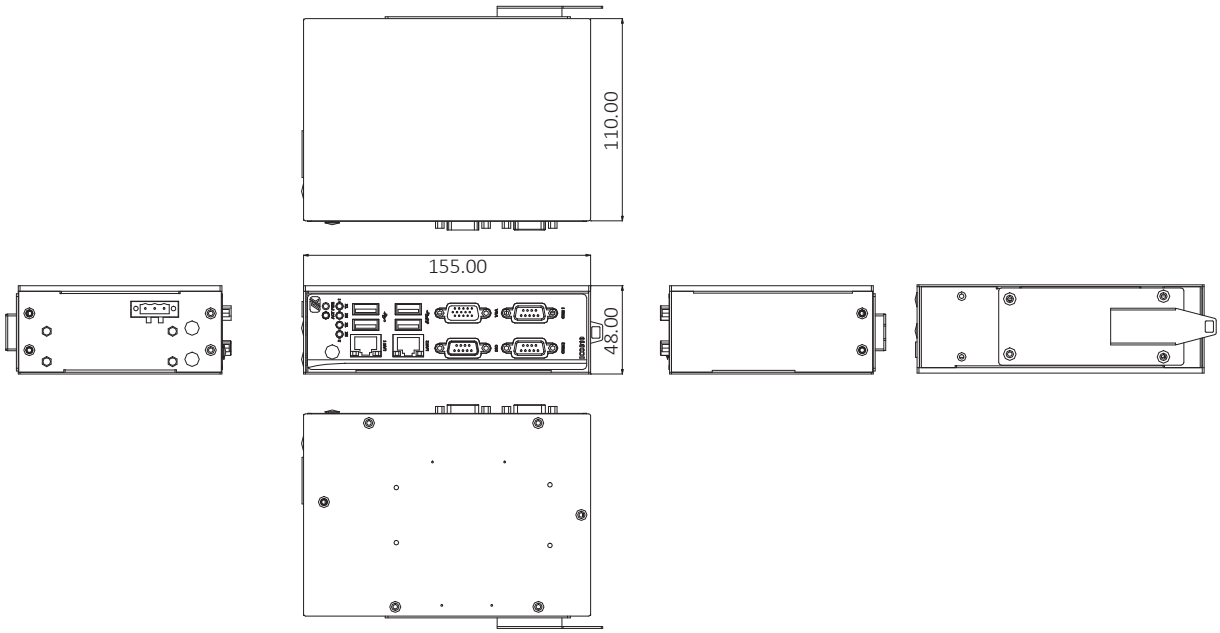
* mSATA and wireless can be either one.

Ordering Information

Standard

ICO310-N3160-PB-DC (P/N: E22C310104)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3160 (1.6 GHz/QC), 2 COM, 2 LAN, and DIO (-20°C to +60°C with power button)
ICO310-N3160-PB-PD-DC (P/N: E22C310105)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3160 (1.6 GHz/QC), 2 COM, 2 LAN, PoE PD, and DIO (-20°C to +60°C with power button)

Dimensions



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