ICO310

Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3060/N3160, 2 COM, 4 USB, 2 GbE LAN (1 PoE PD), DIO and RTC
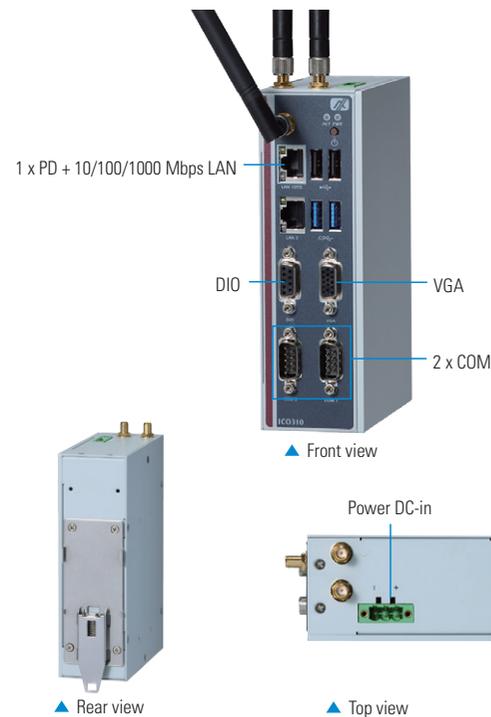
Features

- Cost-effective with fanless and cableless design
- Intel® Celeron® processor N3060 (1.6 GHz/2-core) or 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
- AMS.AXView intelligent remote monitoring software for IIoT

1 x PD + 10/100/1000 Mbps LAN

DIO

VGA

2 x COM

▲ Front view

Power DC-in

▲ Rear view   ▲ Top view

Fanless   Low Power   Ext. Temp   IP40   EN60950   AMS.AXView

Specifications

Standard Color	Silver
Construction	Extruded aluminum and heavy-duty steel, IP40
CPU	Intel® Celeron® processor N3060 (1.6 GHz/2-core) or 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 connectors Interface select 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® i211AT) 1 x PoE PD compliant with IEEE 802.3at standard through LAN 1 (ICO310-N3060-PD-DC, 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, 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)
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)
Mounting	DIN-rail, wall mount
OS Support	Windows® 10 IoT, Linux
Software Support	AMS.AXView

* mSATA and wireless can be either one.

Ordering Information

* Specifications and certifications may vary based on different requirements.

Dimensions