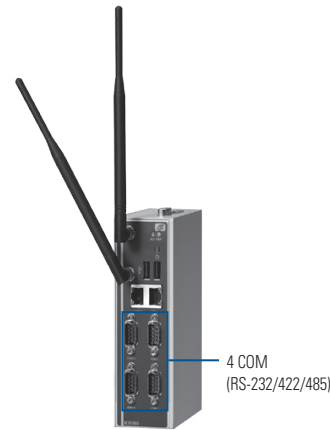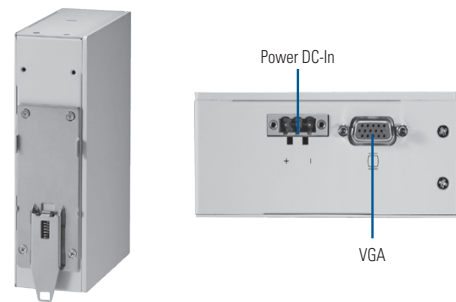# ICO300-MI

Robust DIN-rail Fanless Embedded System with Intel® Atom™ Processor E3815 as an Intel® IoT Gateway Solution

Features

- Supports Intel® IoT Gateway Technology with Wind River Intelligent Device Platform XT 3.1
- Fanless and robust design
- Intel® Atom™ processor E3815 (1.46 GHz)
- 4 RS-232/422/485 ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- Supports wireless (3G/GPRS)
- CompactFlash™ (or mSATA) and SATA SSD (or HDD)
- Wide operating temperature range from -20°C to +70°C
- 12-24 VDC wide range power input
- RTC battery support

▲ Front view

4 COM
(RS-232/422/485)

Power DC-In

VGA

▲ Rear view

Fanless | Low Power | Ext. Temp | IP40 | EN60950

Introduction

The ICO300-MI based on Intel® Gateway Technology has been upgraded with Wind River Intelligent Device Platform XT v3.1. The reliable DIN-rail embedded IoT gateway platform utilizes the low power Intel® Atom™ processor E3815 and supports DDR3L system memory maximum up to 4 GB, delivering high performance and low power consumption. It provides enterprise-grade security and intelligent manageability, yet simplifies the development process and gateway deployment for IoT applications. The intelligent ICO300-MI is a perfect solution for industrial IoT applications such as smart energy, smart factory automation, facility monitoring systems and more.

The ICO300-MI, Axiomtek's application-ready IoT gateway platform based on Intel® Gateway Technology, provides the opportunity to accelerate the IoT development and ensures security to help protect the device and data. It features low power Intel® Atom™ processor, wireless connectivity, rich expansions and ultra-light weight and compact design. Furthermore, this intelligent IoT gateway system is well suited for extreme environments with its IP40-rated housing and wide operating temperatures range from -20°C to +70°C. The ICO300-MI is ideal for machine or factory automation and smart IIoT solutions.

Specifications

Standard Color	White
Construction	Extruded aluminum and heavy-duty steel, IP40
CPU	Intel® Atom™ processor E3815 (1.46 GHz)
System Memory	1 x DDR3L-1066 SO-DIMM, up to 4GB (E3815)
BIOS	AMI UEFI BIOS

System I/O Outlet	Serial Port	4 x RS-232/422/485 (COM 1-4) Interface select by BIOS Supports Auto Flow Control in RS-485 mode
	USB	2 x USB 2.0
	RTC	Battery onboard
	Storage	1 x CF* (or mSATA*) 1 x SATA SSD (or HDD)
	LAN	2 x 10/100/1000 Mbps Ethernet
	VGA	1 x DB15 connector
	Power Input	1 x DC power input with terminal block
	Wireless	1 x full-size PCI Express Mini Card slot Supports wireless* (3G/GPRS) 1 x SIM socket 2 x Antenna
Watchdog Timer	255 levels, 1~255 sec.	
System Indicator	Power, Active	
Power Supply	Power Input Range : 12-24 VDC Power Input Rating : 12-24 VDC, 1.21-0.66A Power Protection : DC Version, OVP, Reverse protection	
Operating Temperature	-20°C ~ +70°C (-4°F ~ +158°F)	
Humidity	10% ~ 95%	
Vibration Endurance	2g @ 5–500 Hz, amplitude 0.35 mm (operation/storage/transport)	
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	
Certificate	CE, FCC, UL	
Dimensions	48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)	

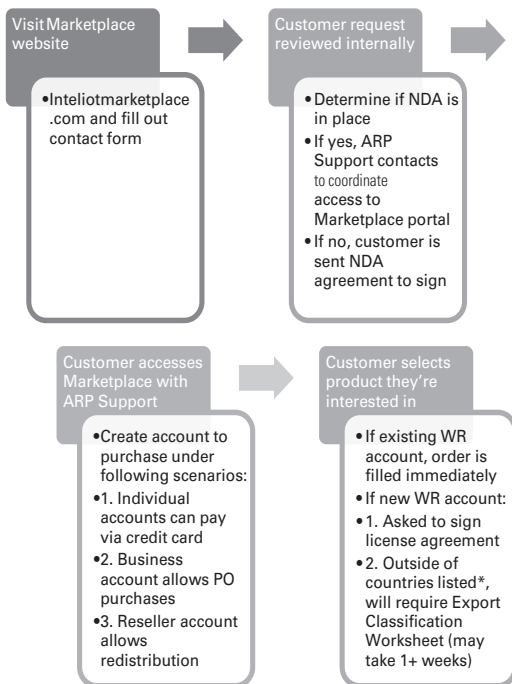* mSATA and wireless can be either one.
* mSATA and CF can be either one.

Updated Feb. 24, 2017.   * All specifications and photos are subject to change without notice.

Ordering software for the Intel® IoT Gateway from Intel® marketplane website

	Flex	Pro Pilot	Pro (Atom/Quark)	Pro (Core™)	Support Services for Pro Pilot
Licensing Term	Un-limited	6 months	perpetual	perpetual	-
Dev Seats	0	5	20	20	5
Redistribution	unlimited	<= 25 nodes	varies	varies	-
Support Term	n/a	Available separately	12 mos (renewable)	12 mos (renewable)	6 months
1	$0.00	$450.00	n/a	n/a	$10,000
2+	n/a	quote	n/a	n/a	-
500 nodes	n/a	quote	$42.00 per node	$79.00 per node	-
501 - 1500 nodes	n/a	quote	$38.00 per node	$66.00 per node	-
1501+ nodes	n/a	quote	quote	quote	-
Feature Set					
IoT Support Services for Gateways			X	X	X
McAfee Embedded Control Essential	X				
McAfee Embedded Control Pro		X	X	X	
Wind River IDP XT 3.1	X	X			
Wind River Development tools, including Workbench 4		X	X	X	

* Above quotation is for reference only. The accurate quotation is still base on Intel® official website.

Marketplace Order Process

Expedite this process! Intel Account representatives may submit customer names to ARP and they can be added to the preapproved list for Marketplace access.

Visit Marketplace website
- Inteliotmarketplace.com and fill out contact form

Customer request reviewed internally
- Determine if NDA is in place
- If yes, ARP Support contacts to coordinate access to Marketplace portal
- If no, customer is sent NDA agreement to sign

Customer accesses Marketplace with ARP Support
- Create account to purchase under following scenarios:
- 1. Individual accounts can pay via credit card
- 2. Business account allows PO purchases
- 3. Reseller account allows redistribution

Customer selects product they're interested in
- If existing WR account, order is filled immediately
- If new WR account:
- 1. Asked to sign license agreement
- 2. Outside of countries listed*, will require Export Classification Worksheet (may take 1+ weeks)

*Export Classification Worksheet is NOT required for Australia , Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States

Ordering Information

Standard

ICO300-E3815-MI3-DC	Robust DIN-rail fanless embedded system with Intel® Atom™ processor E3815 1.46 GHz, 4 COM ports and Intel® IoT gateway solution supported (-20°C ~ +70°C)

Optional

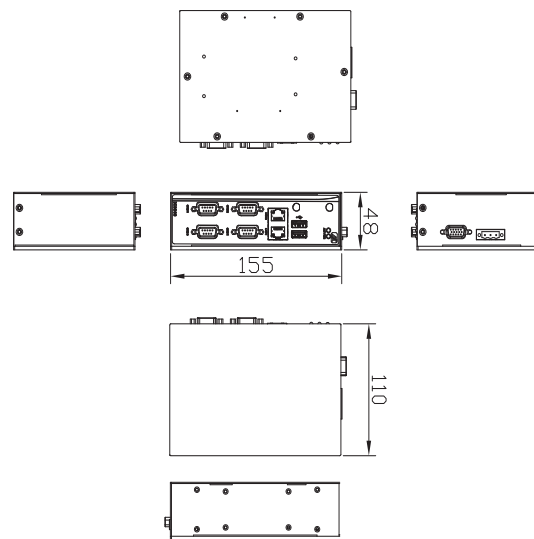|	
CompactFlash™	4 GB or above (with W.T. CF)
2.5" SATA SSD or HDD (with W.T. SSD or HDD)	
DDR3L SO-DIMM	2 GB-4 GB (with W.T. memory)
Wall mounting kit	
Wireless (3G/GPRS) module	

*Specifications and certifications are based on options and may vary.

Benefit of ICO300-MI

- Performance at the edge
- Advanced security
- Scalability
- Manageability
- Faster, more flexible deployment

Dimensions

axiomtek.com

DIN-rail Embedded Systems 3

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660