

# 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



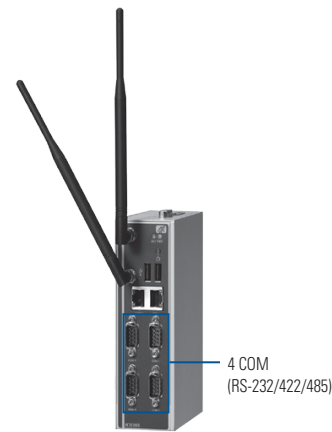
## Introduction

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

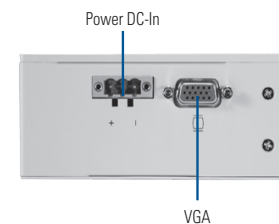
Standard Color	White
Construction	Extruded aluminum and heavy-duty steel, IP40
CPU	Intel® Atom™ processor E3815 (1.46 GHz)
System Memory	1 x DDR3L-1066 SO-DIMM, up to 4GB (E3815)
BIOS	AMI UEFI BIOS



▲ Front view



▲ Rear view



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
Watchdog Timer	Wireless	1 x full-size PCI Express Mini Card slot Supports wireless* (3G/GPRS) 1 x SIM socket 2 x Antenna
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.

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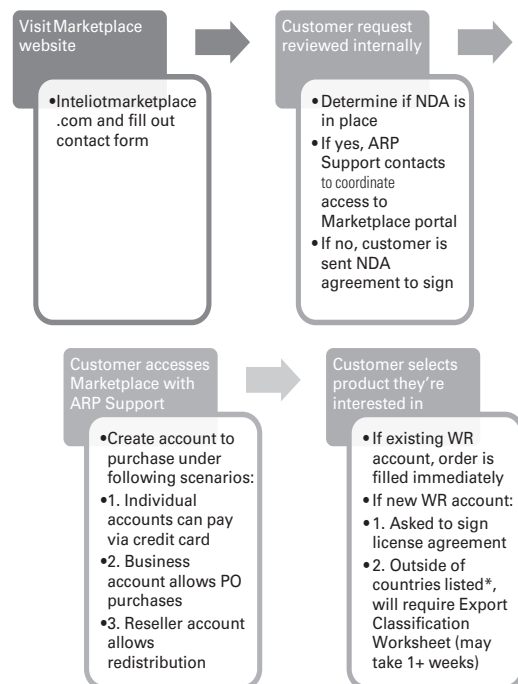
## Ordering software for the Intel® IoT Gateway from Intel® marketplace website

	Flex	Pro Pilot	Pro (Atom/Quark)	Pro (Core™)	Support Services for Pro Pilot
Licensing Term	Unlimited	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.



\*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

Updated Feb. 24, 2017.

\* All specifications and photos are subject to change without notice.

## 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)
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### Optional

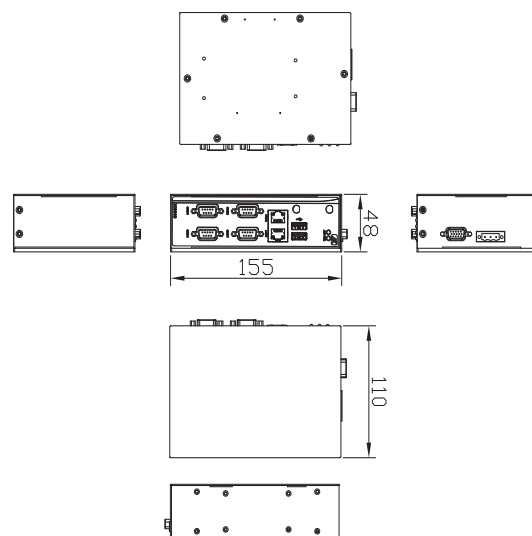
CompactFlash™	4 GB or above (with W.T. CF)
2.5" SATA SSD or HDD (with W.T. SSD or HDD)	
DDR3L SO-DIMM	2 GB-4 GB (with W.T. memory)
Wall mounting kit	
Wireless (3G/GPRS) module	

\*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



## 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.

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