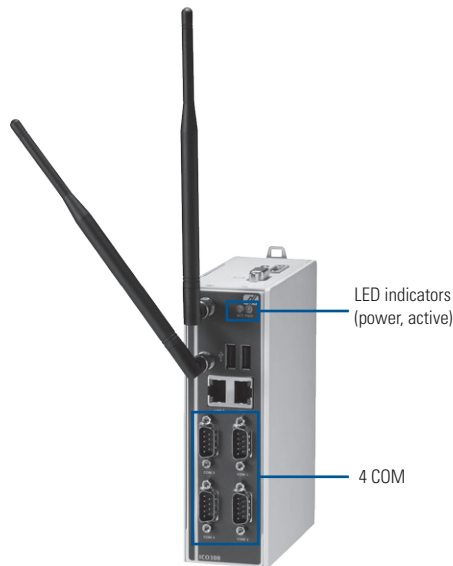# ICO300-MI

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

LED indicators (power, active)

4 COM

▲ Front view

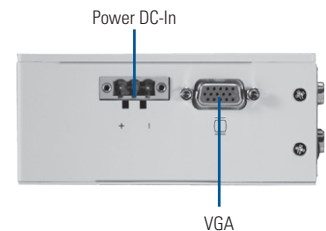EN60950 | Ext. Temp | IP40 | Fanless | Low Power

Features

- Supports Intel® IoT gateway solution
- Fanless and robust design
- Supports Intel® Atom™ processor E3815 (1.46GHz)
- 4 RS-232/422/485 COM ports
- 2 isolated 10/100/1000Mbps Ethernet ports
- 1 wireless (3G/GPRS)
- Supports 1 CompactFlash™ (or mSATA) and SATA SSD (or HDD)
- Extended temperature range from -20°C to +70°C
- Wide range 12 - 24V DC-In
- RTC battery support

Power DC-In

VGA

▲ Rear view

Introduction

The ICO300-MI, an intelligent industrial Intel® Atom-based IoT (Internet of Things) gateway solution. With din-rail, fanless and rugged design, delivering high performance at competitive price. The reliable ICO300-MI is a perfect embedded solution for IoT, industrial and embedded applications such as power plant automation, facility monitoring systems, intelligent transportation systems and other harsh environment.

The application-ready machine to machine platform ICO300-MI supports Intel® IoT Gateway Solution. Customers could connect their widely distributed systems via wireless network such as 3G/GPRS. It also avails users to manage a variety of systems effortlessly with a wide range of industrial interfaces for both new and existing installation into the Internet of Things environment. It simplifies the development process and deployment of IoT gateways and achieves accelerated business transformation.

Specifications

Standard Color	White
Construction	Extruded aluminum and heavy-duty steel, IP40
CPU	Intel® Atom™ processor E3815 (1.46GHz)
System Board	SBC87842
System Memory	DDR3L-1066 MHz SO-DIMM up to 4 GB (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	Supports 1 x CF* (or mSATA*) Supports 1 x SATA SSD (or HDD)
	LAN	2 x 10/100/1000 Ethernet
	VGA	1 x DB15 connector
	Power Input	1 x DC power input with terminal block
	Wireless	1 x full size 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 : 12-24VDC Power Input Rating : 12-24VDC, 1.21-0.66A Power Protection : DC Version , OVP, Reverse protection	
Operating Temperature	-20°C ~ +70°C (-4°F ~ +158°F)	
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)	
Humidity	10% ~ 95%	
Vibration Endurance	2g@5~500Hz, 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	
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.

EOS Support

Intel® IoT Gateway Solution
Software components content:
Wind River Linux OS
Wind River IDP & Workbench Tools
MACfee Embedded Control

Benefit of ICO300-MI

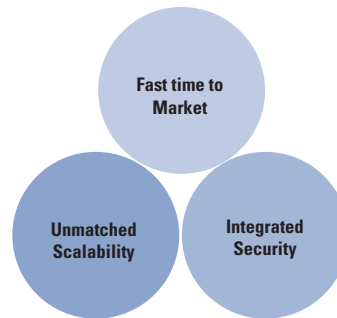| Connectivity	Security	Manageability
• Pre-integrated connected capabilities enable rich network options to save development time and costs. • Provides an extensive network of connectivity.	• Protect devices for trust and control • Protect the Device • Product the application • Protect the data at rest and in flight.	• Enable common provisioning frameworks • Enable remote secure upgrades • Provide web-based configuration utilities

Ordering Information

Standard

ICO300-E3815-MI-DC	Robust din-rail fanless embedded system with Intel® Atom™ processor E3815 1.46 GHz, 4 COM ports and Intel® IoT gateway solution (-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 SODIMM	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.

ICO300-MI for IoT value proposition

Fast time to Market

Unmatched Scalability

Integrated Security

Dimensions

48

155

110

Overview

Embedded Systems

Embedded Systems for Transportation

3

Embedded Field Controllers

Industrial Firewall

Digital Signage Solutions

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories