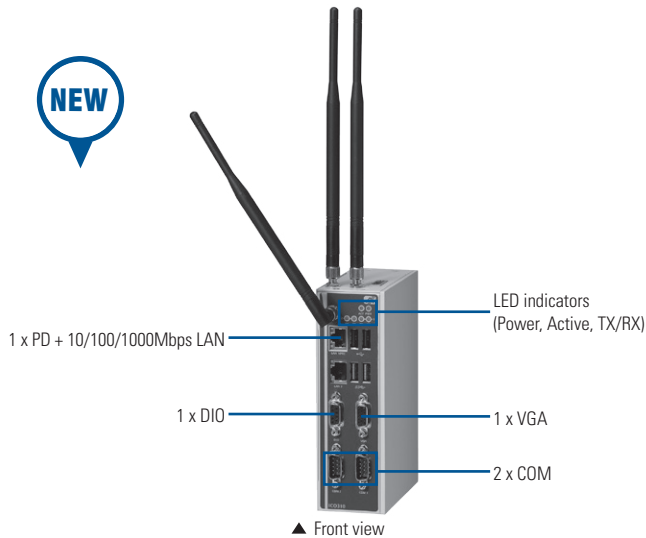


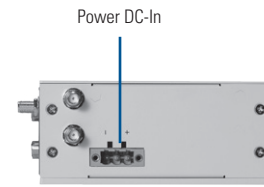
ICO310

Robust Din-rail Fanless Embedded System

with Intel® Celeron® Processor N3060/
N3160, 2 COM, 4 USB, 2 Gigabit LAN
(1 PoE PD), DIO and RTC



- Fanless design
- Supports 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 10/100/1000Mbps Ethernet ports
- 1 PoE PD is compliant with IEEE 802.3at standard through LAN 1
- 1 DIO port
- 2 wireless (3G/GPRS & Wi-Fi)
- Supports 1 mSATA & SATA SSD (or HDD)
- Wide range 12-24V DC-In



Specifications

Standard Color	White
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	DDR3L SO-DIMM max. up to 8 GB
BIOS	AMI UEFI BIOS
System I/O Outlet	Serial Port 2 x RS-232/422/485 (COM 1/2) with DB9 connectors Interface select by BIOS Supports Auto Flow Control in RS-485 mode LED indicator (TX/RX) for COM 1/2
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 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: 12-24V DC-In PoE: IEEE 802.3at
Display	VGA
Wireless	2 x full-size Mini Card slot 1 x SIM socket 3 x Antenna (PS: One of Mini Card slot co-lay mSATA, so mSATA with wireless can be either one)

Watchdog Timer	255 levels, 1~255 sec.
System Indicator	Power, active, COMs (TX/RX)
Power Supply	Power Input Range: 12-24VDC Power Input Rating: 12-24VDC, 2.09-1.09A Power Protection: DC Version OVP, Reverse protection
Operating Temperature	-20°C ~ +60°C (-4°F ~ +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)
Storage Temperature	-40°C ~ +85°C (-49°F ~ +185°F)
Humidity	10% ~ 95%
Vibration Endurance	2g @ 5 ~ 500Hz, amplitude 0.35 mm (operation/storage/transport)
Weight	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certification	CE, FCC
Dimensions	48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
Mounting	Din-rail mounting Wall mounting
OS Support	Windows® 7 Embedded Windows® 8 Embedded Windows® 8, Windows® 10 Linux support package
Remote Management Software	AXView 2.0 Intelligent Remote Management Solution for IoT

* mSATA and wireless can be either one.

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Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Ordering Information

Standard

IC0310-N3060-DC	Robust din-rail fanless embedded system with Intel® Celeron® processor N3060 (1.6 GHz/2-core), 2 COM, 2 LANs (-20°C ~ +60°C)
IC0310-N3060-PD-DC	Robust din-rail fanless embedded system with Intel® Celeron® processor N3060 (1.6 GHz/2 core), 2 COM, 1 LAN, 1 PoE PD+LAN (-20°C ~ +60°C)
IC0310-N3160-DC	Robust din-rail fanless embedded system with Intel® Celeron® processor N3160 (1.6 GHz/4-core), 4 COM, 2 LANs (-20°C ~ +60°C)
IC0310-N3160-PD-DC	Robust din-rail fanless embedded system with Intel® Celeron® processor N3160 (1.6 GHz/4 core), 2 COM, 1 LAN, 1 PoE PD+LAN (-20°C ~ +60°C)

Optional

2.5" SATA SSD or HDD (with W.T. SSD or HDD)

mSATA 16 GB ~ 512 GB (with W.T. mSATA)

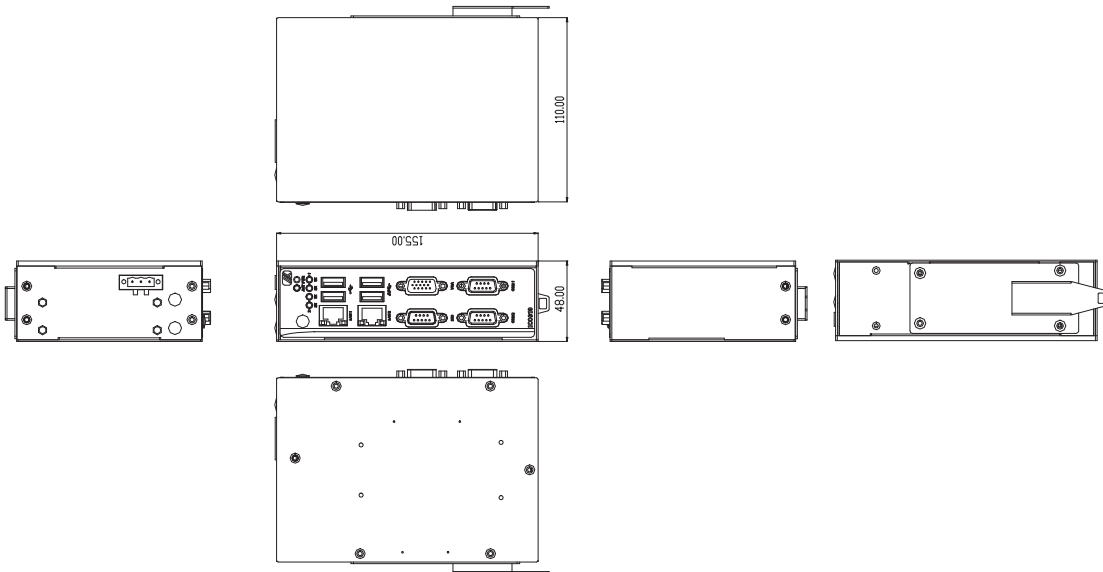
DDR3L SO-DIMM 2 GB ~ 8 GB (with W.T. memory)

Wall mounting kit

Wireless (3G/GPRS or Wi-Fi) module

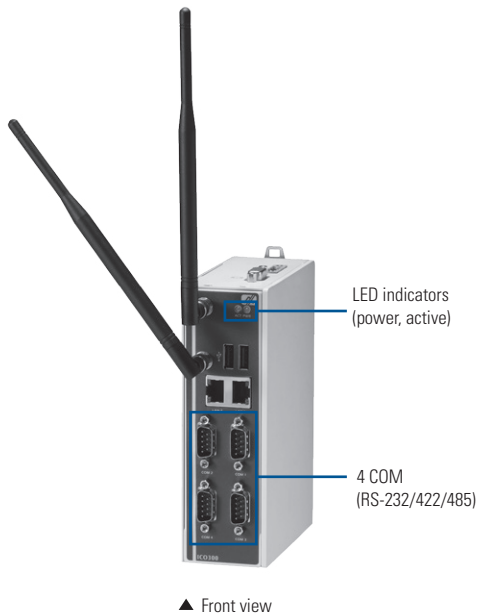
*Specifications and certifications are based on options and may vary.

Dimensions



ICO300-MI

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



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.

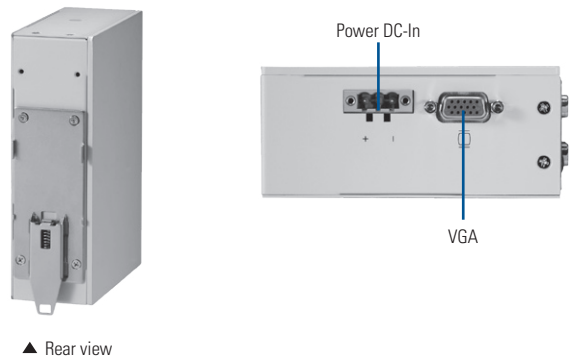
The ICO300-MI, Axiomtek's application-ready IoT gateway platform based on Intel® Gateway Technology, provides the opportunity to accelerate the IoT development and ensures security to help protect the device and data. It features low power Intel® Atom™ processor, wireless connectivity, rich expansions 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	DDR3L-1066 MHz SO-DIMM up to 4 GB (E3815)
BIOS	AMI UEFI BIOS

Features

- Supports Intel® IoT Gateway Technology with Wind River Intelligent Device Platform XT 3.1
- Fanless and robust design
- Supports Intel® Atom™ processor E3815 (1.46 GHz)
- 4 RS-232/422/485 COM ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 1 wireless (3G/GPRS)
- Supports 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



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 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)
Storage Temperature		-40°C ~ +85°C (-40°F ~ +185°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.

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

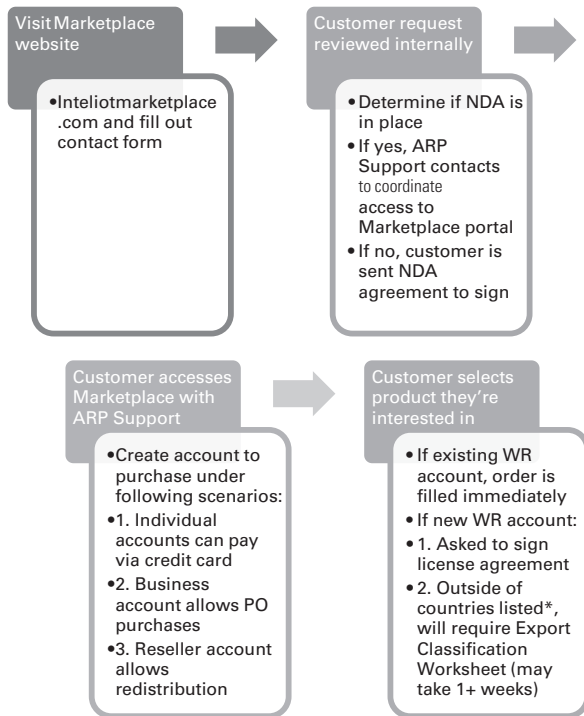
Source: <http://inteliotmarketplace.com/>

	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 correct 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

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

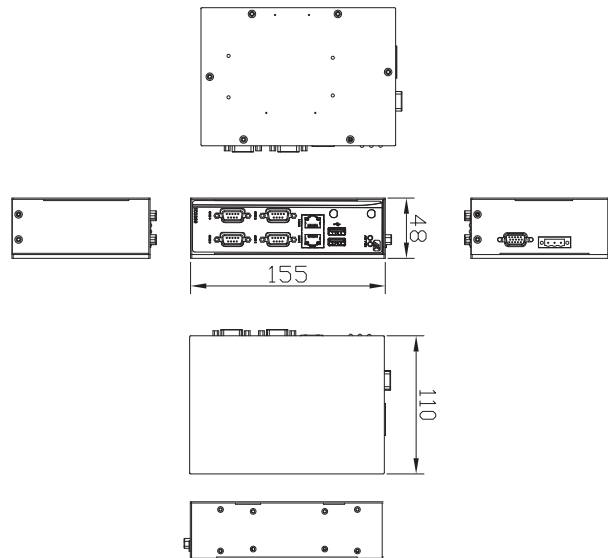
Wireless (3G/GPRS) module

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

Benefit of ICO300-MI

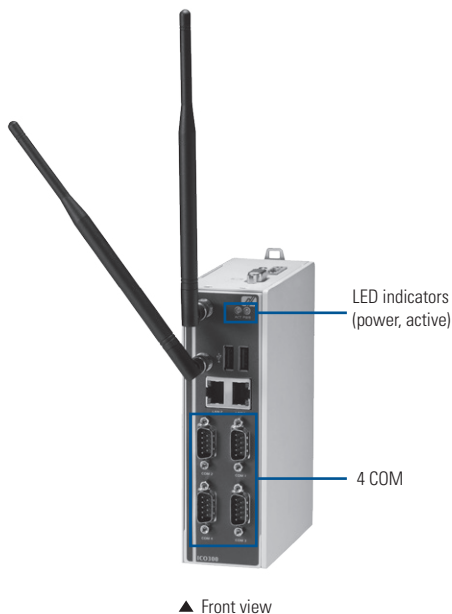
	Performance at the edge
	Advanced security
	Scalability
	Manageability
	Faster, more flexible deployment

Dimensions



ICO300

Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor E3815/E3827, 4 COM, 2 LANs, DIO and RTC

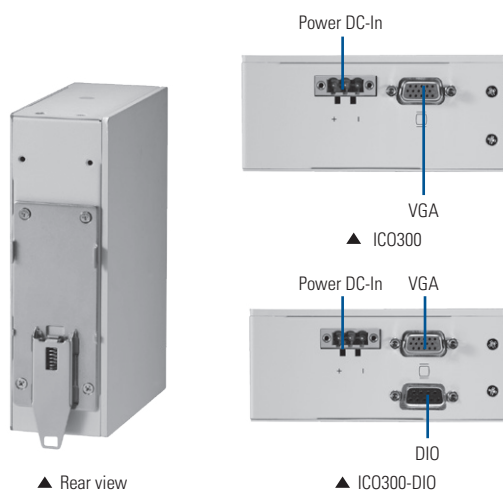


Specifications

Standard Color	White																		
Construction	Extruded aluminum and heavy-duty steel, IP40																		
CPU	Intel® Atom™ processor E3815 (1.46 GHz) or E3827 (1.75 GHz)																		
System Board	SBC87842																		
System Memory	DDR3L-1066 MHz SO-DIMM up to 4 GB (E3815) or up to 8 GB (E3827)																		
BIOS	AMI UEFI BIOS																		
System I/O Outlet	<table border="1"> <tr> <td>Serial Port</td> <td>4 x RS-232/422/485 (COM 1~4) Interface select by BIOS Supports Auto Flow Control in RS-485 mode</td> </tr> <tr> <td>USB</td> <td>2 x USB 2.0</td> </tr> <tr> <td>RTC</td> <td>Battery onboard</td> </tr> <tr> <td>Storage</td> <td>Supports 1 x CF (or mSATA*) Supports 1 x SATA SSD (or HDD)</td> </tr> <tr> <td>LAN</td> <td>2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT for ICO300) (Intel® i210-IT for ICO300-WT)</td> </tr> <tr> <td>VGA</td> <td>1 x DB15 connector</td> </tr> <tr> <td>DIO (ICO300-DIO)</td> <td>1 x DI/DO (8-bit programmable, DB9 female connector) Voltage is 5V TTL-level ESD protection corresponds to IEC6100-4-2 (± 8KV (Air); ± 4KV (contact)) Programming: I/O sink current is 10mA (max.) Input/output can be programming</td> </tr> <tr> <td>Power Input</td> <td>1 x DC power input with terminal block</td> </tr> <tr> <td>Wireless</td> <td>1 x full size PCI Express Mini Card slot supports wireless (3G/GPRS or Wi-Fi) 1 x SIM socket 2 x Antenna</td> </tr> </table>	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 Mbps Ethernet (Intel® i211-AT for ICO300) (Intel® i210-IT for ICO300-WT)	VGA	1 x DB15 connector	DIO (ICO300-DIO)	1 x DI/DO (8-bit programmable, DB9 female connector) Voltage is 5V TTL-level ESD protection corresponds to IEC6100-4-2 (± 8KV (Air); ± 4KV (contact)) Programming: I/O sink current is 10mA (max.) Input/output can be programming	Power Input	1 x DC power input with terminal block	Wireless	1 x full size PCI Express Mini Card slot supports wireless (3G/GPRS or Wi-Fi) 1 x SIM socket 2 x Antenna
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 Mbps Ethernet (Intel® i211-AT for ICO300) (Intel® i210-IT for ICO300-WT)																		
VGA	1 x DB15 connector																		
DIO (ICO300-DIO)	1 x DI/DO (8-bit programmable, DB9 female connector) Voltage is 5V TTL-level ESD protection corresponds to IEC6100-4-2 (± 8KV (Air); ± 4KV (contact)) Programming: I/O sink current is 10mA (max.) Input/output can be programming																		
Power Input	1 x DC power input with terminal block																		
Wireless	1 x full size PCI Express Mini Card slot supports wireless (3G/GPRS or Wi-Fi) 1 x SIM socket 2 x Antenna																		

Features

- Fanless design
- Supports Intel® Atom™ processor E3815 (1.46 GHz) or E3827 (1.75 GHz)
- 4 RS-232/422/485 ports
- Supports Windows® 10 IoT Solution
- 2 isolated 10/100/1000Mbps Ethernet ports
- 1 DIO port
- Supports wireless (3G/GPRS or Wi-Fi)
- Supports 1 CF (or mSATA) and SATA SSD (or HDD)
- Wide range 12 - 24V DC-In



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 (ICO300-E3815) 12-24VDC, 1.42-0.74A (ICO300-E3827) 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)
EOS Support	Windows® 7 Embedded Windows® 8 Embedded Linux support package Windows® 10 IoT core pro

* mSATA and wireless can be either one.

** mSATA and CF can be either one.

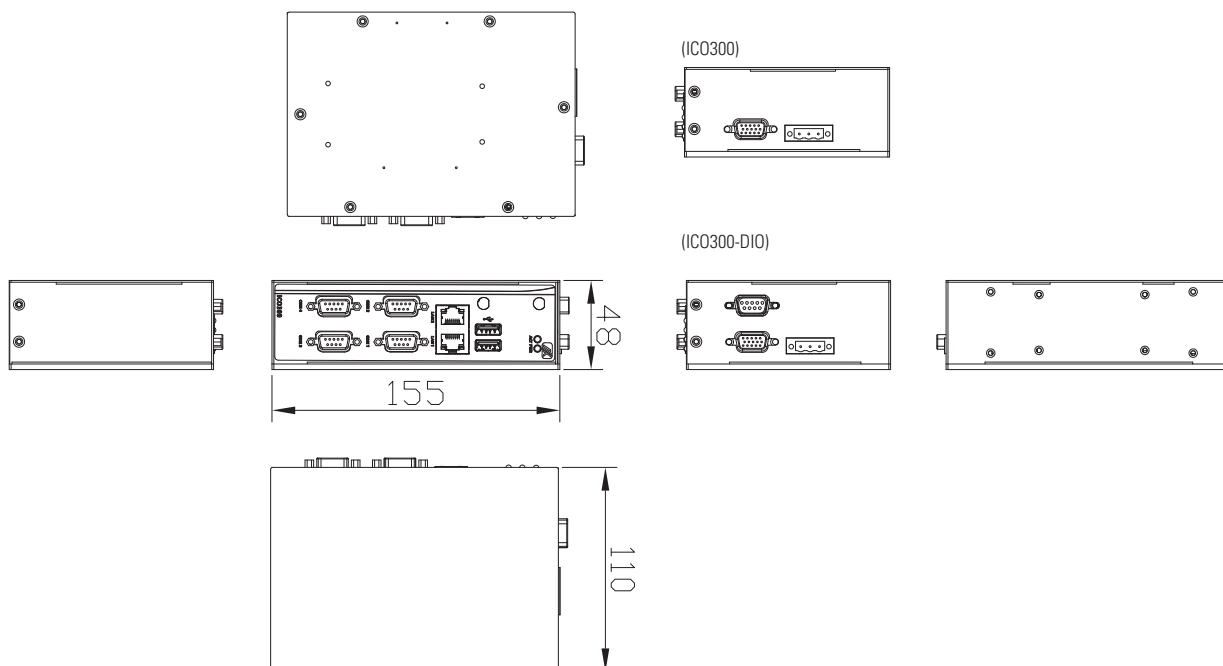
Ordering Information

Standard	
IC0300-E3815-DC	Robust din-rail fanless embedded system with Intel® Atom™ processor E3815 1.46 GHz and 4 COM ports (-20°C ~ +70°C)
IC0300-E3815-WT-DC (Optional)	Robust din-rail fanless embedded system with Intel® Atom™ processor E3815 1.46 GHz and 4 COM ports (-40°C ~ +70°C)
IC0300-E3827-DC	Robust din-rail fanless embedded system with Intel® Atom™ processor E3827 1.75 GHz and 4 COM ports (-20°C ~ +70°C)
IC0300-E3815-DIO-DC	Robust din-rail fanless embedded system with Intel® Atom™ processor E3815 1.46 GHz, 4 COM ports and DIO (-20°C ~ +70°C)
IC0300-E3827-DIO-DC	Robust din-rail fanless embedded system with Intel® Atom™ processor E3827 1.75GHz, 4 COM ports and DIO (-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 ~ 8 GB (with W.T. memory)
Wall mounting kit	
Wireless (3G/GPRS or Wi-Fi) module	

* Specification and certifications are based on requirements and may vary.

Dimensions



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