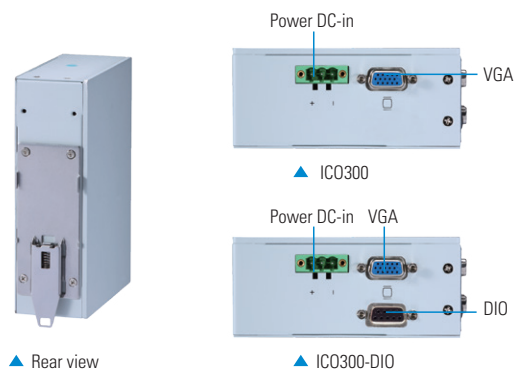
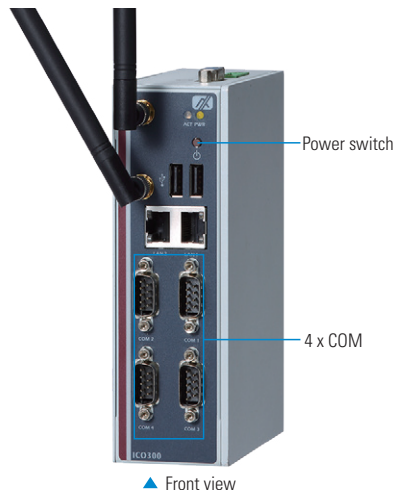


# ICO300

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

## Features

- Fanless and compact design
- Intel® Atom® processor E3815 or E3827
- 4 RS-232/422/485 ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 1 DIO port
- 1 PCI Express Mini Card slot (3G/GPRS or Wi-Fi)
- 1 CF (or mSATA) and SATA SSD (or HDD)
- 12 to 24 VDC wide range power input
- Supports Windows® 10 IoT solution



## Specifications

Standard Color	Silver																		
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	1 x DDR3L-1333/1600 SO-DIMM, up to 4GB (E3815) or up to 8GB (E3827)																		
BIOS	AMI UEFI BIOS																		
System I/O Outlet	<table border="1"> <tr> <td>Serial</td> <td>4 x RS-232/422/485 (COM 1 to 4) Interface select by BIOS Supports Auto Flow Control in RS-485 mode</td> </tr> <tr> <td>RTC</td> <td>Battery onboard</td> </tr> <tr> <td>USB</td> <td>2 x USB 2.0</td> </tr> <tr> <td>Storage</td> <td>1 x CF (or mSATA*) 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>Display</td> <td>1 x VGA</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 1 x SIM Card socket 2 x Antenna</td> </tr> </table>	Serial	4 x RS-232/422/485 (COM 1 to 4) Interface select by BIOS Supports Auto Flow Control in RS-485 mode	RTC	Battery onboard	USB	2 x USB 2.0	Storage	1 x CF (or mSATA*) 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)	Display	1 x VGA	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 1 x SIM Card socket 2 x Antenna
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Watchdog Timer	255 levels, 1 to 255 sec.																		

System Indicator	Power, active
Power Supply	Power input range: 12 to 24 VDC Power input rating: 12 to 24 VDC, 1.21 to 0.66A (ICO300-E3815) 12 to 24 VDC, 1.42 to 0.74A (ICO300-E3827) Power protection: DC version, OVP, Reverse protection
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
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, UL
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-PB-DC (P/N: E22C300109)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3815 1.46 GHz and 4 COM (-20°C to +70°C)
IC0300-E3827-PB-DC (P/N: E22C300110)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3827 1.75 GHz and 4 COM (-20°C to +70°C)
IC0300-E3815-DIO-PB-DC (P/N: E22C300111)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3815 1.46 GHz, 4 COM and DIO (-20°C to +70°C)
IC0300-E3827-DIO-PB-DC (P/N: E22C300112)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3827 1.75 GHz, 4 COM and DIO (-20°C to +70°C)

Optional	
CompactFlash™	4GB or above (with W.T. CF)
2.5" SATA SSD or HDD (with W.T. SSD or HDD)	
DDR3L SO-DIMM	2GB to 8GB (with W.T. memory)
8812C3000A0E	IC0300/310/320 wall mount bracket kit
8816N3234A0E	3G/GPS UC20G kit for tBOX (3G ANT) (E)
8816N3235A0E	3G/GPS UC20G kit for tBOX (3G/GPS ANT) (E)
8812C3003A0E	SparkLAN WPEA-152GN Wi-Fi kit ICO SFP (E)
8812C3004A0E	SparkLAN WPEA-251N Wi-Fi kit ICO SFP (E)
82606200390E	LTE module SIERRA MC7304 kit for EU SFP
822C3001070E	LTE SIM7100C with EXT ANT for IC0300 SFP
826N3230060E	tBOX series Bointec CPE902A Wi-Fi SFP

\* Specifications and certifications may vary based on different requirements.

## Dimensions

