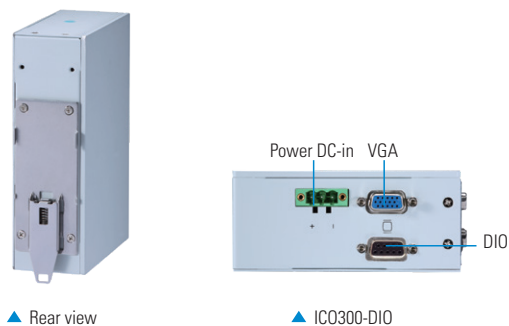
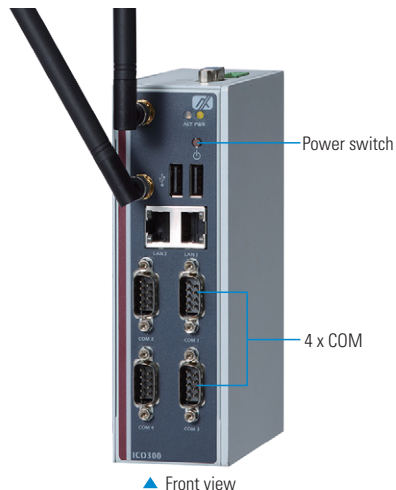


# ICO300

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

## Features

- Cost-effective with fanless and cableless 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 CompactFlash (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 8GB                     |   |
| BIOS              | AMI UEFI BIOS  |   |
| System I/O Outlet | Serial   | 4 x RS-232/422/485 (COM 1 to 4)<br>Interface select by BIOS<br>Supports Auto Flow Control in RS-485 mode  |
|                   | RTC  | Battery onboard   |
|                   | USB  | 2 x USB 2.0   |
|                   | Storage  | 1 x CompactFlash™ (or mSATA*)<br>1 x SATA SSD (or HDD)  |
|                   | LAN  | 2 x 10/100/1000 Mbps Ethernet (Intel® I210-IT)  |
|                   | Display  | 1 x VGA   |
|                   | DIO (ICO300-DIO)   | 1 x DI/DO (8-bit programmable, DB9 female connector)<br>Voltage is 5V TTL-level<br>ESD protection corresponds to IEC6100-4-2 (± 8KV (Air); ± 4kV (contact))<br>Programming:<br>I/O sink current is 10mA (max.)<br>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<br>1 x SIM Card socket<br>2 x Antenna  |

|                       |   |
|-----------------------|---|
| Watchdog Timer        | 255 levels, 1 to 255 sec.   |
| System Indicator      | Power, active   |
| Power Supply          | Power input range: 12 to 24 VDC<br>Power input rating:<br>12 to 24 VDC, 1.21 to 0.66A (ICO300-E3815)<br>12 to 24 VDC, 1.42 to 0.74A (ICO300-E3827)<br>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<br>Windows® 8 embedded<br>Linux support package<br>Windows® 10 IoT core pro   |

\* mSATA and wireless can be either one.

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

## Ordering Information

| Standard                                    |  |
|---|--|
| IC0300-E3815-DIO-PB-DC<br>(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<br>(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) |

## Dimensions

