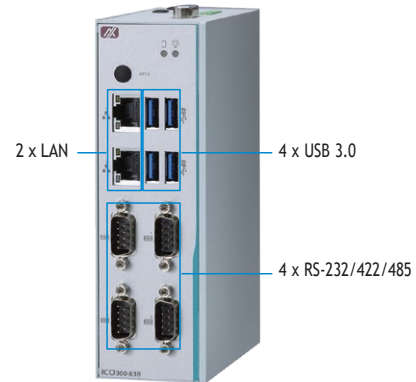


FES300-83B

Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350/ Pentium® Processor N4200, Isolated COM, LAN and DIO

Features

- Cost-effective with fanless and cableless design
- Intel® Celeron® processor N3350/Pentium® processor N4200, reliable F1 stepping version CPU
- 4 isolated COM, 4 USB, 2 GbE LAN
- 8-bit programmable DIO for IoT gateway applications
- Wide operating temperature range from -40°C to +70°C
- 12 to 24 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Front view



▲ Rear view



HDMI ▲ Top view



Specifications

Standard Color	Silver	
Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	Intel® Celeron® N3350 2C @1.1 GHz, TDP: 6W Intel® Celeron® N4200 4C @1.1 GHz, TDP: 6W	
Chipset	SoC integrated	
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	
BIOS	AMI	
TPM	TPM 2.0	
System I/O Outlet	Serial	4 x DB9 Isolated* RS-232/422/485
	Display	1 x HDMI (up to 1920 x 1200 @60Hz)
	USB	4 x USB 3.0
	Ethernet	2 x RJ-45 isolated* 10/100/1000 Mbps Ethernet (Intel® i211-AT) *isolation voltage: 1.5 kV
	DIO	1 x DB9 8-bit programmable DIO
	Others	3 x Antenna opening
Extension Interface	2 x Full-size Rev. 1.2 PCI Express Mini Card slot: • 1 x USB/PCIe with SIM socket • 1 x mSATA/USB/PCIe	
Storage	SATA Drive	1 x mSATA (occupied 1 x PCI Express Mini Card slot) 1 x Internal 2.5" SATA drive (9.5 mm height)

Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	1 x Terminal block, 12 to 24 VDC
	Power Consumption	12 to 24VDC, 2.82-1.34A
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral**	
Humidity	0% to 95%	
Vibration Endurance	3 Gms with storage (5 to 500Hz, X/Y/Z direction; random, operating)	
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	
Certifications	CE (Class A), FCC (Class A)	
EMC	CE/FCC EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)	
Dimensions	48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)	
EOS Support	Windows® 10 IoT, Linux	
Software Support	AMS.AXView	

* See Ordering information

** Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Ordering Information

Standard	
FES300-83B-N3350-4ICOM / 4COM-HDMI-DIO-WT-DC (P/N: E22C300144) for Isolation COM (P/N: E22C300146) for Non-Isolation COM	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350 (1.1GHz) 4 COM 2 GbE 4 USB, HDMI, DIO, operating temperature -40°C to 70°C, TPM2.0 reserved <i>N3350 CPU SKUs</i>
FES300-83B-N4200-4ICOM / 4COM-HDMI-DIO-WT-DC (P/N: E22C300147) for Isolation COM (P/N: E22C300145) for Non-Isolation COM	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N4200 (1.1GHz) 4 COM 2 GbE 4 USB HDMI, DIO, operating temperature -40 to 70°C, TPM2.0 reserved <i>N4200 CPU SKUs</i>

*4ICOM: with 4 x Isolation COM ports
*4COM: with 4 x Non-Isolation COM ports

Optional	
Communication Modules	8812C300GA0E 3G UC20GKit tBOX/ICO (20) (E) 8812C300HA0E 3G/GPS UC20GKit tBOX/ICO (20) (E) 8812C1200A0E AP12356 Wi-Fi kit for tBOX/ICO (E) 8812C300CA0E AP12356WT Wi-Fi kit for ICO300 SFP (E) 8812C300IA0E LTE SIM7100JC kit for ICO (20) JPN SFP (E) 8812C300EA0E LTE SIMCOM SIM7100C (TW) for ICO300 SFP (E) 8812C300DA0E LTE SIMCOM SIM7100E (EU) for ICO300 SFP (E) 8816N3235A0E 3G/GPS UC20G kit for tBOX (3G/GPS ANT) (E)
AC to DC Adapter	50956A24040E Adapter 12V36W FSP036-RHBN3 with wire type

* Specifications and certifications may vary based on different requirements.

Dimensions

