

AES-RCA8E

ARM Cortex-A8 800 MHz RISC Processor IoT Edge Embedded System



Features

- ARM Cortex-A8 800 MHz RISC Processor
- Onboard DDR3L 1 GB / eMMC 16GB
- Multiple I/O interface connections for data collection
- 9-36VDC Power Input
- Mini PCI-e connector Expansion
- Onboard Wi-Fi/Bluetooth Module
- Pre-Install Linux Debian
- Wide operating temperature range -20°C to 70°C



Specification

System

CPU/MCU	ARM Cortex-A8 800 MHz RISC Processor
Memory	Onboard DDR3L 1GB
Storage	eMMC 16GB
Real time clock	Yes
Indicators	Programmable LED control x 4
Cellular	Supported (Optional)
Wireless LAN	WiFi 802.11 b/g/n, Bluetooth4.2 / BLE
Operating System	Debian 10
Support Protocol	Modbus / MQTT Library(by request)

Power Supply

Power Requirement	9-36 VDC
Power Consumption	12V/0.65A
MTBF (Hours)	70,000

Environmental and Mechanical

Dimension	106 x 110 x 38mm
Weight	400g
Mouting/Installation	Wall mount, Din Rail (Optional)
Operating Temp.	-4 °F ~ 158 °F (-20 °C ~ 70 °C)
Storage Temp.	-40 °F ~ 176 °F (-40 °C ~ 85 °C)
Operating Humidity	10% ~ 95% relative humidity, non-condensing

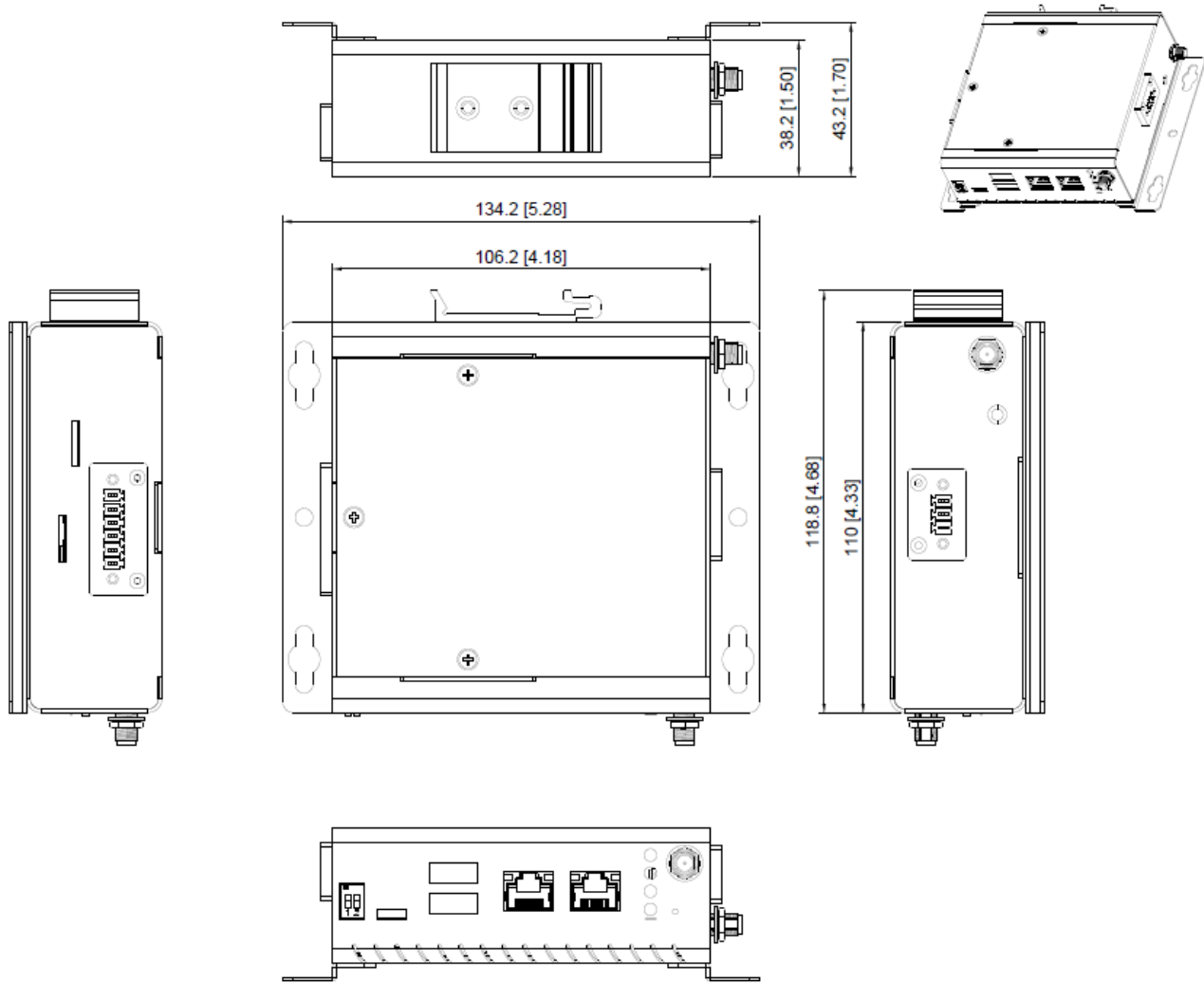
Certification

Regulations	CE, FCC
-------------	---------

Interface

Serial Port	1 x Terminal block 6-pin ,3.81mm, RS-485
Ethernet	2 x Gigabit Ethernet, RJ-45
USB	2 x USB 2.0, Type A
ADC	--
DI/DO	--
AI/AO	--
CAN Bus	--
Display	--
Power Connector	1 x Terminal block 3-pin ,3.81mm
Debug Port	1 x Micro USB for console
Expansion Slot	1 x SIM card slot 1 x Micro SD slot
Other Interface	1 x Mini-PCI-e Connector for RF module

Dimensions



Packing List

1 x AES-RCA8E

Ordering Information

AES-RCA8E1	ARM Cortex-A8 1GB DDR3L/16GB EMMC
AES-RCA8E2	ARM Cortex-A8 1GB DDR3L/16GB/Wi-Fi,BT,4G
AES-RCA8E-NCC Certification Sku	ARM Cortex-A8 1GB DDR3L/16GB/ Gemato (NCC-Certification ready)

Optional Accessories

1255300366	Power Adapter. AC/DC. 100-240VAC. 12VDC/3A.36W
9741EG25G0	PCIe mimi card. 4G LTE. module kit. Global Band W/SIM holder. W/Cable & antenna. Quectel. EG25-G
9651352C01	Wall Mount Kits 110x26mm. AES-RCA8E
9651352C02	DIN Rail Kits 47x25mm. AES-RCA8E

Optional Software Accessories

OPC UA Stack	Ethernet/IP Stack
EtherCAT Stack	IO-Link Stack
PROFIBUS Stack	MQTT
PROFINET Stack	Modbus