AES-BC27

Broadcom BCM2711 quad-core Cortex-A72 SoC IoT Edge Embedded System

Features

● Support Broadcom BCM2711 quad-core Cortex-A72 SoC @ 1.5GHz

● Onboard DDR4L 1GB / eMMC 8G (optional 2/4G RAM/16G eMMC)

● 2 x RS-232/485, 1 x isolated digital input (DI), 1 x isolated digital output (DO)

● 2 x Gigabit Ethernet

● 2 x USB 3.0 type A, 1 x CAN-FD

● 9-36V DC, wide-range power input

● Wide-range operating temperature: -20°C to 70°C

▇ Specification

System

Processor	Broadcom BCM2711 Quad-core Cortex-A72 1.5GHz
Memory	1 /2/4 GB (model variant)
Storage	8/16 GB (model variant)
Real time clock	Yes
Cellular	1 x B-key M.2 2280/3054 (USB signaling)
Security	TPM 2.0
Wireless LAN	WiFi 802.11 b/g/n/ac, BT 5.0 (varies with installed CM4 SOM)
Operating System	Raspberry Pi OS
LED indicators	3 x user definable LED indicators

Power Supply

Power Requirement	9-36 VDC
Power Consumption	TBD

Environmental and Mechanical

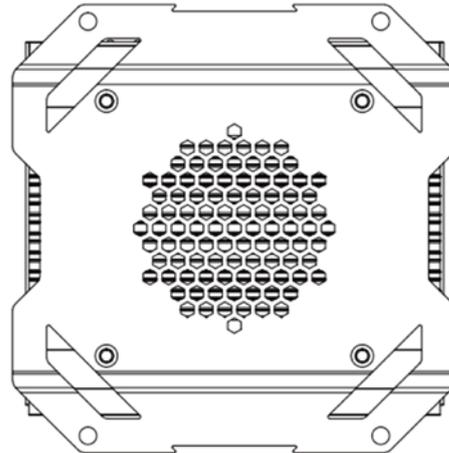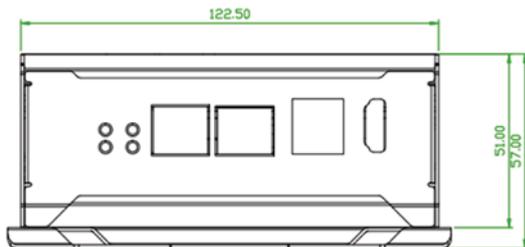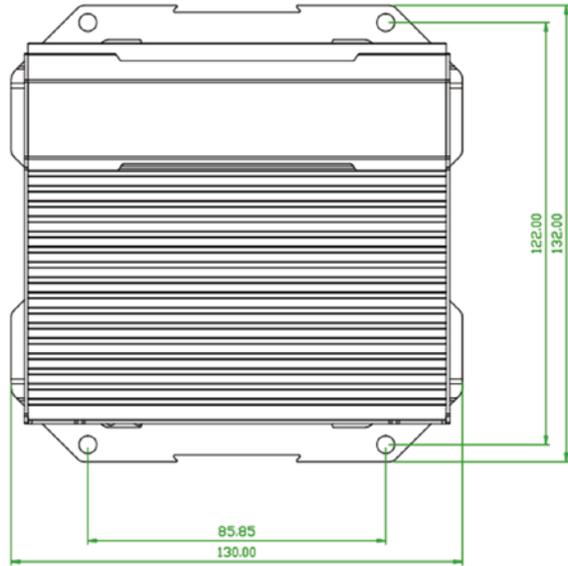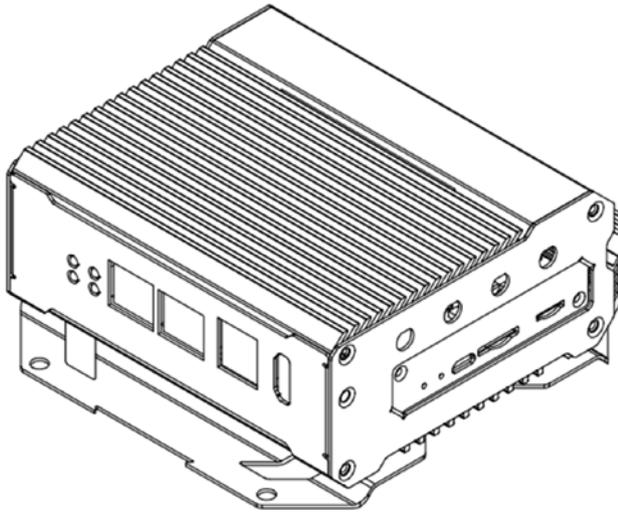|	
Dimension	130mm x 122mm x 57mm
Weight	<600g
Mouting/Installation	Din Rail, Wall Mount
Operating Temp.	-4 °F ~ 158 °F (-20 °C ~ 70 °C)
Storage Temp.	-40 °F ~ 176 °F (-40 °C ~ 85 °C)
Operating Humidity	10% ~ 95% relative humidity, non-condensing

Certification

Regulations	CE, FCC
Carrier	Planning

Interface

Serial Port	2 x user selectable RS-232/485
CAN bus	1 x CAN-FD, terminal block
DI / DO	1 x Isolated digital input (DI); 1 x isolated digital output (DO)
Ethernet	2 x GbE LAN, RJ-45
USB	2 x USB 3.2 Gen 1, type A 1 X USB 2.0 OTG
Display	1 x HDMI 2.0
Other Interface	1 x SIM card slot
Expansion slot	M.2 B-Key 2280/3054

Dimensions

Ordering Information

AES-BC27E1	AES-BC27, Broadcom BCM2711, 9~36VDC