

ABOX-5100

AMD Ryzen™ Embedded V1000 Processor w/ 8 x GbE/ 2 x COM/ 4 x DP/ 4 USB 3.0/
9-48V AI GPU Computing



Delay Time



Power Ignition



Wide Range



Wireless



Battery backup

Features

- AMD Ryzen™ Embedded V1000 Platform
- Vega GPU with up to 11 Compute Units and 4 x DP 1.4
- 8 x GPI, 4 x GPO and 2 x RS-232/422/485
- Dual Hot Swappable SATA Storage
- 9-48VDC Input and Operating Temp.: -40~70°C
- 8 x GbE LAN (Optional for 8 x PoE)

Taiwan Patent No. M447854
Taiwan Patent No. M448011

System

CPU	AMD Ryzen™ V1807B Quad Core Soc (3.3~3.6GHZ)
Memory	2 x DDR4 2400 MHz SO-DIMM up to 32GB
LAN Chipset	Intel i210
Watchdog	1 ~ 255 Level Reset
TPM	2.0

I/O

Serial Port	2 x RS 232/422/485
USB Port	4 x USB 3.0 Ports
LAN	8 x RJ45 Ports for GbE (Optional for 8 x POE total 100W max.)
Video Port	4 x DP
DIO Port	8 x GPI and 4 x GPO
Audio	1 x Line-out, 1 x Line-in and 1 x Mic-in
Expansion Bus	3 x Full Mini-PCIe Slots and 1x M.2 A-E Key 2230 slot (2 x SIM Card Sockets for 3G/LTE)

Graphics

Graphics	AMD Next-generation Graphics Core and Multimedia Vega GPU with up to 11 Compute Units H.2651 (10-bit) Decode & (8-bit) Encode, VP9 Decode Up to 4x DisplayPort 1.4
Resolution	Max Resolution (DP) : 4096x2160@60Hz

Storage

Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD
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Power Requirement

Power Input	9V - 48V DC Power Input
Power Protection	Automatics Recovery Short Circuit Protection
Power Management	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by BIOS and Software
Battery (UPS)	Internal Battery Kit for UPS (Optional) Patent No. : M447854 - Build-in Battery

Environmental

Operating Temp.	-40°C ~ 70°C * CPU configure at 25W
Storage Temp.	-40°C ~ 80°C
Relative Humidity	0% RH ~ 95% RH
Vibration(random)	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis with SSD
Vibration Operating	MIL-STD-810G, Method 514.6, Procedure I, Category 4
Shock	Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Certifications	CE, FCC Class A, E13

Mechanical

Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	3860g (Barebone)
Dimensions	260(L) x 226(W) x 89(H) mm

Ordering Information

Part Number	ABOX-5100-V1807 ABOX-5100 P-V1807 (with PoE)
Description	AMD Ryzen™ Embedded V1000 Processor w/ 8 GbE/ 2 COM/ 9-48V/ AI GPU Computing