ABOX-5100(P)

Taiwan Patent No. M447854

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

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 3 x RS-232/422/485
- Dual Hot Swappable SATA Storage
- 9-48V DC Input and Operating Temp.: -40~70°C
- 8 x GbE LAN (Optional for 8 x PoE)













Introduction

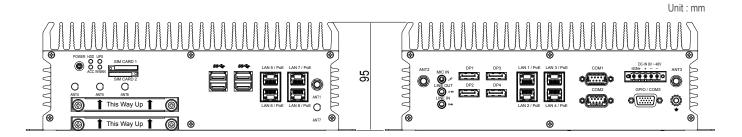
The ABOX-5100 is powered by AMD Ryzen Embedded V1000 Processor with 8 x GbE/ 2 x COM/ 4 x DP/ 4 x USB 3.0/ 9-48V Fanless Box Computer. ABOX-5100 provide the Dual Hot Swappable SATA Storage RAID 0,1,5, which provides more flexibility for hardware maintenance and expansion. These computers can be operated in extreme weather conditions (operating temperature: -40°C ~ 70 °C) and can be adapted to various industrial requirements such as Smart Patrol, Smart Factory Automation Control System, Surveillance System as well as Visual Management System such as Automatic License Plate Recognition, Mining Machines and Vision Control System.

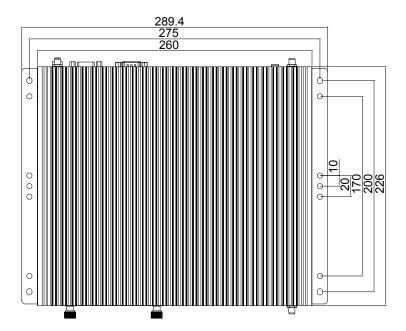
Specifications

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 i210AT x 2 to LAN Switch Marvell 88E6176-A1 x 2	
Watchdog	1 ~ 255 Level Reset	
TPM	2.0	
I/O		
Serial Port	3 x RS-232/422/485 (Optional Max 4 x RS-232/422/485)	
USB Port	4 x USB 3.0 Ports	
LAN	$8 \times RJ45 \text{ GbE}$ by $2 \times Switch Design (MAC x 2), Optoinal PoE for the 8 Ports 100W max.$	
Video Port	4 x DP Ports	
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-PCle Slots and 1x M.2 A-E Key 2230 slot (2 x SIM Card Sockets for 3G/LTE)	
Software		
Operating System	Win10 LTSC 1809, Ubuntu 18.04 64bit	
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): 4096x2304@60Hz	

Environmental		
Operating Temp.	-40°C ~ 70°C * CPU configure at 25W, ambient w/ 0.6m/s airflow	
Storage Temp.	-40°C ~ 80°C	
Relative Humidity	10% RH – 90% RH (non-condensing)	
Vibration (with SSD)	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis	
	MIL-STD-810G, Method 514.6, Procedure I, Cat.4, Operating	
Shock	Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD	
Certifications	CE, FCC Class A, E13	
Storage		
Туре	2 x 2.5" Drive Bay for SATA Type HDD/SSD	
Power Requirement		
Power Input	9V - 48V DC Power Input	
Power Protection	Automatics Recovery Short Circuit Protection	
Power Mgmt.	Vehicle Power Ignition for Variety Vehicle	
Power Off Control	Power off Delay Time Setting by BIOS and Software	
Battery (UPS)	Internal Battery Kit for 10 Mins Operating (optional) *UPS backup time varies depending on actual overall system power consumption. Patent No.: M447854 - Build-in Battery	
Mechanical		
Construction	Aluminum Alloy	
Mounting	Wall-mount	
Weight	5220g (Barebone)	
Dimensions	260(L) x 226(W) x 95(H) mm	

Dimensions







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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 Input AI GPU Computing	
State of Origin	Made in Taiwan	

Optional Accessories

DRAM	SO-DIMM max.DDR4-2400,4GB~32GB,0~70°C/-40~85°C
SATA SSD	2.5inch MLC/TLC 64GB~1TB 0~70°C/-40~85°C
Wifi	WiFi M.2 2230 A-E key module
Modem	LTE miniPCle card
GPS	GPS miniPCle card
CANBUS	CANBUS miniPCle card
Battery backup kit	BAT-5200 kit, 5200mA/h, -30~60°C, discharge -20~60°C, operating about 10 mins.
Power adapter	AC/DC 220W/24Vor 280W/24V power adaper