

ABOX-5100G1

AMD Ryzen™ Embedded V1000 Processor w/ 8 GbE/ 2 COM/ 4 x DP/ 4 HDMI/ 4 USB 3.0/ NVIDIA® GeForce GTX 1050 GPU/ 9-48V/ AI GPU Computing

AI GPU Computing



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup



Taiwan Patent No. M447854
Taiwan Patent No. M448011

Features

- AMD Ryzen™ Embedded V1000 Platform
- NVIDIA® GeForce GTX 1050 GPU
- Support 768 CUDA Cores
- 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)

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, 4 x HDMI
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	NVIDIA® GeForce GTX 1050 GPU (768 CUDA Cores) Support for OpenGL 4.5 and OpenCL™ 1.2 Support for DirectX® 12 (Feature Level 12_0) features
Resolution	Max Resolution (HDMI 2.0b) : 7680x3840@60Hz (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
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, VESA-mount, Din Rail Mounting Kit
Weight	3860g (Barebone)
Dimensions	260(L) x 226(W) x 89(H) mm

Ordering Information

Part Number	ABOX-5100G1-V1807 ABOX-5100 PG1-V1807 (with PoE)
Description	AMD Ryzen™ Embedded V1000 Processor w/ 8 GbE/ 2 COM/ NVIDIA® GeForce GTX 1050 GPU/ 9-48V/ AI GPU Computing