

SD5100G1

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

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
- 9-48V DC Input and Operating Temp.: -40~60°C
- 8 x GbE LAN (Optional for 8 x PoE)



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup

| 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 |
| USB Port | 4 x USB 3.0 Ports |
| LAN | 8 x RJ45 GbE by 2 x Switch Design (MAC x 2), Optional PoE for the 8 Ports 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) |
| 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) |
| Software | |
| Operating System | Win10 LTSC 1809, Ubuntu 18.04 64bit |
| Storage | |
| Type | 2 x 2.5" Drive Bay for SATA Type HDD/SSD |

| 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 (DP) : 4096x2160@60Hz - AMD CPU Max Resolution (HDMI 2.0b) : 4096x2160@60Hz - Nvidia GPU GTX1050 |
| Environmental | |
| Operating Temp. | -40°C ~ 60°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 (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 | 5220g (Barebone) |
| Dimensions | 260(L) x 226(W) x 95(H) mm |
| Ordering Information | |
| Part Number | SD5100G1-V1807 SD5100 PG1-V1807 (with PoE) |
| Description | AMD Ryzen™ Embedded V1000 Processor w/ 8 x GbE/ 2 x COM/ 4 x DP/ 4 x HDMI/4 USB 3.0/ NVIDIA® GeForce GTX 1050 GPU/ 9-48V Input AI GPU Computing |
| State of Origin | Made in China |