

SD-5210G6

Powerful Edge AI Fanless Computer System with Intel® 10th Gen Xeon® / Core™ i9 Processor and supports NVIDIA® Quadro® RTX 3000 GPU

Features

- Intel® GEN 10th 10 Cores™ Xeon® W-1290TE / i9-10900TE
- NVIDIA® Quadro® RTX 3000 GPU
- Supports 1920 CUDA cores and 240 Tensor cores
- 8 x DI, and 4 x DO and 3 x RS-232/422/485
- 1 x M.2 B key, 1 x M.2 A-E key & 3 x MiniPCle expansion slots
- Dual Hot Swappable SATA Storage RAID 0,1,5
- 9-48V DC Input and Operating Temp.: -40~60°C
- 10 x GbE RJ45 (Optional 8 x PoE and 8 x M12 X coded connectors)
- Rolling Stock EN 50155 and EN 50121-3-2 certified



POE



GPS



Wireless



Wide Range



Delay Time

Introduction

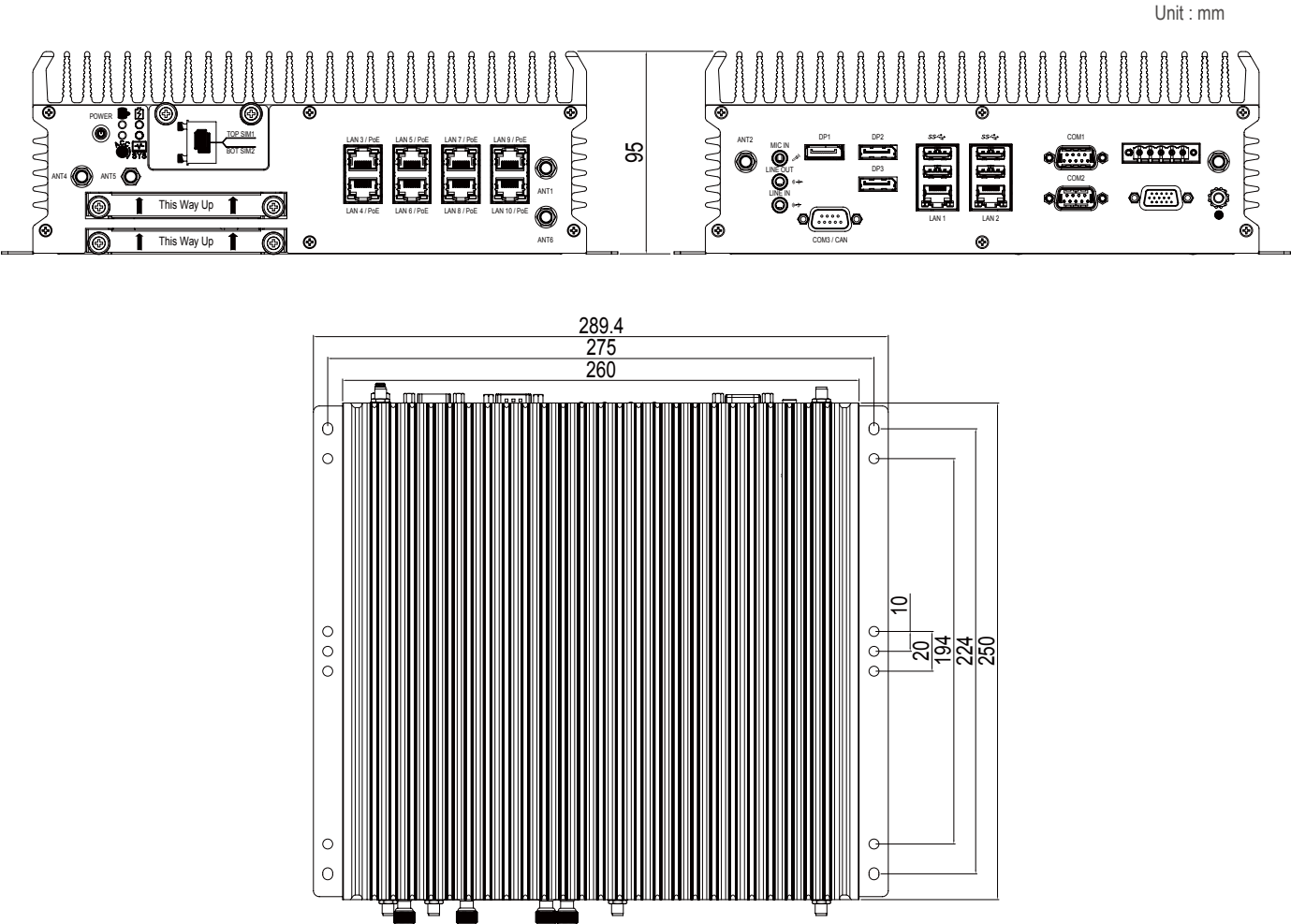
The SD-5210G6 is powered by Intel® Gen 10th 10 Cores™ Xeon®, i9 CPU with 10 x GbE and NVIDIA® Quadro® RTX 3000 GPU for AI GPU Computing. Features 1920 CUDA cores, a superior GPU specification in the fanless computer realm and 240 Tensor cores to accelerate deep learning processes. Longevity support from NVIDIA® is also included. It is equipped with dual hot swappable SATA Storage RAID 0,1 and 5, 9-48V DC input and can withstand operating temperatures from -40 to 60°C.

Specifications

System	
CPU	Intel® Gen10 Xeon® W-1290TE (20M Cache 2.0GHz up to 4.6GHz)*
	Intel® Gen10 Core™ i9-10900TE (20M Cache 2.0GHz up to 4.5GHz)
	Intel® Gen10 Core™ i7-10700TE (16M Cache 2.0GHz up to 4.4GHz)
	Intel® Gen10 Core™ i5-10500TE (12M Cache 2.3GHz up to 3.7GHz)
	Intel® Gen10 Core™ i3-10100TE (6M Cache 2.3GHz up to 3.6GHz)
	Intel® Gen10 Core™ G5900TE (4M Cache 3.0GHz)
* Use only with Intel® W480E	
Chipset	Q470E / W480E
Memory	2 x DDR4 2666/2933 MHz SO-DIMM up to 64GB (Optional ECC support with Xeon® W-1290TE)
LAN Chipset	9 x Intel® i210-AT and 1 x i219LM (support iAMT) Gb/s Ethernet Controllers Onboard Support PXE and WOL
Watchdog	1 ~ 255 Level Reset
TPM	2.0
I/O	
Serial Port	3 x RS 232/422/485 (option additional 1 x RS 232/422/485)
USB Port	4 x USB 3.2 Gen 1x1 Ports
LAN	10 x RJ45 Ports for GbE (Optional 8 with M12 X coded connectors and 8 x POE total Max.120W)
Video Port	3 x DP, 2 x HDMI Ports
DIO Port	8 x DI (5~48VDC) and 4 x DO (5VDC, 100mA)
Audio	1 x Line-out, 1 x Line-in and 1 x Mic-in
Expansion Bus	2 x Full Mini-PCle Slots and 1 x Full Mini-PCle Slot w/ USB interface only for WWAN sharing 2 x SIM Card Sockets with M.2 B Key 3042 slot 1x M.2 A-E Key 2230 slot, 1 x M.2 B Key 3042 slot w/ 2 x SIM Card Sockets for WWAN Patent: - Automatic SIM Card Detection
Storage	
Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5
	1 x M.2 M key 2280 slot supports NVMe and SATA SSD * Thermal heatsink is required for M.2 storage. Please contact sales window for more information.

Graphics	
CPU Built-in Graphics	Intel® UHD Graphics 630 for z9/i9/i7/i5/i3, Intel® UHD Graphics 610 for G5900TE
	Max Resolution (DP 1.2) : 4096 x 2340 @ 60Hz
MXM Graphics	NVIDIA® Quadro® RTX 3000 GPU (1920 CUDA cores & 240 Tensor cores) w/6GB GDDR6 Max Resolution :1920 x 1080 @ 60Hz w/o HDMI audio
Environmental	
Operating Temp.	-40°C ~ 60°C w/0.6 m/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, EN50155
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 Backup (Option)	Internal Battery Kit for 10 Mins Operating (P/N: BAT-5200 kit, Operating Temp. -20 ~ 60°C) * UPS backup time varies depending on actual overall system power consumption.
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	5300g (Barebone)
Dimensions	260(L) x 250(W) x 95(H) mm

Dimensions



Ordering Information

Part Number	SD-5210xyy-zz (x= P= w/PoE, x= Empty= w/o PoE, yy=G6=RTX 3000, zz= i9= i9-10900TE, zz= i7= i7-10700TE, zz= i5= i5-10500TE, zz= i3= i3-10100TE, zz= C1= G5900TE)
Description	Intel® Gen 10th 10 Cores Xeon®, i9 CPU w/ 10 x GbE (Optional 8 x PoE)/3 x COM/ 3 x DP/ 2 x HDMI/4 x USB 3.2 Gen 1x1/ NVIDIA® Quadro® RTX 3000 GPU/ 9-48V Input AI GPU Computing
State of Origin	Made in China

Optional Accessories

DRAM	DDR4-2933 MHz SO-DIMM, 4GB~32GB, 0~70°C/-40~85°C
SSD	M.2 2280 B-M key NVMe TLC -40~85°C 64GB~1TB w/ Heatsink
	M.2 2280 B-M key SATA TLC -40~85°C 64GB~1TB w/ Heatsink
	2.5 inch SATA TLC -40~85°C 64GB~2TB
Wifi	M.2 2230 A-E key 802.3 a/b/g/n/ac
Modem	M.2 3042 B key 5G<E module
GPS	MiniPCle GPS module
CANBUS	MiniPCle CANBUS module
Battery backup kit	BAT-5200 Battery Kit, 5200m/h, -30~60°C, discharge -20~60°C, operating about 10 mins
Power adapter	AC/DC 220W/24V or 280W/24V power adapter