

SD5210G-M12X

Intel Gen 10th 10 Cores Xeon, i9 CPU w/ 10 x GbE (2 x RJ45 and 8 x M12 X Coded Connectors)/ 3 x COM/ 3 x DP/ 2 x HDMI/ 4 x USB 3.2 Gen 1/ NVIDIA® GeForce GTX GPU/ 9-48V Input AI GPU Computing

Features

- Intel GEN 10th 10 Cores Xeon W-1290TE / i9-10900TE
- NVIDIA® GeForce GTX GPU
- 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.: -40~70°C
- 2 x RJ45 Ports and 8 x M12 X Coded Connectors for GbE (Optional 8 x PoE)
- Rolling Stock EN 50155 and EN 50121-3-2 certified



POE



GPS



Wireless



Wide Range



Delay Time

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 W480
Chipset	Q470E / W480E
Memory	2 x DDR4 2666/2933 MHz SO-DIMM up to 64GB
LAN Chipset	9 x Intel i210-AT and 1 x i219LM (iAMT9.5 w/ i5, i7 only) 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 1 Ports
LAN	2 x RJ45 Ports and 8 x M12 X coded connectors for GbE (Optional with 8 x PoE total Max.120W)
Video Port	3 x DP, 2 x HDMI Ports from NVIDIA® GeForce GTX GPU
DIO Port	8 xDI (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, 1 x Mini-PCle w/ USB interface only for LTE 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 LTE
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
MXM Graphics	NVIDIA® GeForce GTX 1650 GPU (896 CUDA Cores) w/4GB GDDR5 Max Resolution (HDMI) : 3840x2160@60Hz

Environmental

Operating Temp.	-40°C ~ 70°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

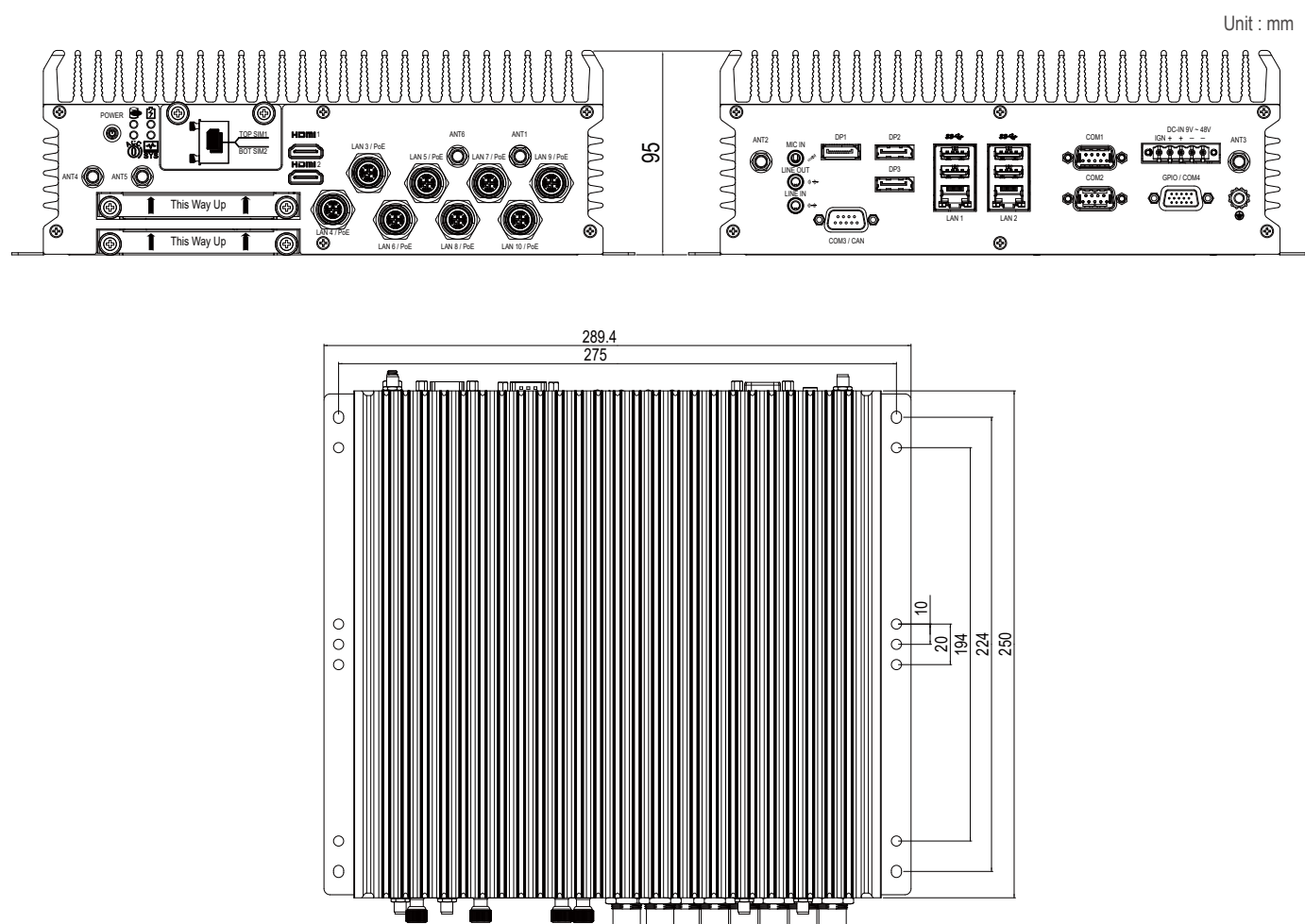
Power Requirement

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 (Operating Temp. -20 ~ 60°C)

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	SD5210Gx-M12X-yy (x=B, yy= Z9, i9, i7, i5, i3 or C1) (B=NVIDIA® GeForce GTX 1650 GPU, Z9=Intel Gen10 Xeon W-1290TE)
Description	Intel Gen 10th 10 Cores Xeon, i9 CPU w/ 10 x GbE (2 x RJ45 and 8 x M12 X Coded Connectors)/ 3 x COM/ 3 x DP/ 2 x HDMI/ 4 x USB 3.2 Gen 1/ NVIDIA® GeForce GTX 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 LTE module
GPS	MiniPCIe GPS module
CANBUS	MiniPCIe CANBUS module
Battery backup 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