

ICS

1110S

Server-grade Intel® Xeon® D-2800/D-2700 Processor
High-performance Storage Server Systems



ICS-1110S



- Server-level Platform : Intel® Xeon® D-2800/D-2700 Processor (Eddy Lake D), supports up to 22 cores
- 2 10G SFP+, 4 GigE LAN, 4 USB, 16-bit Isolated DIO
- 2 Front-access 2.5" SSD/HDD Tray, 10 M.2/U.2 PCIe x4 Storage Devices with Intel® VROC Key supports RAID 0, 1, 5, 10
- Multiple 5G/WiFi 6/4G/LTE/GPRS/UMTS
- Supports Intel® vPro, Intel® QAT (Quick Assist Technology), TPM 2.0
- DC 16V to 50V, Software Ignition Control
- Supports remote devices Out-Of-Band management functions powered by Allxon

Power-efficient Performance | Server-Grade Integration
Flexible Configuration | Industrial Optimization

The Rugged Science ICS-1110S is a high-performance storage server system powered by the Intel® Xeon® D-2800/D-2700 Processor and supports up to 512GB of DDR4 memory. This robust system is equipped with 2 10G SFP+ ports, 4 GigE LAN ports, 1 PCIe x2 slot, 10 U.2 trays, and 2 SSD trays, providing extensive connectivity and storage capabilities. Leveraging Intel® QuickAssist Technology and high-speed interfaces, the ICS-1110S ensures workload-optimized performance for edge AI applications. Ideal for data storage, data management, and data protection tasks, this system is designed to handle demanding environments with ease, making it an excellent choice for advanced edge computing needs.

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Specifications

RS-07242024

System

Processor	- 16-core Intel® Xeon® D-2876NT Processor (Eddy Lake D HCC) - 12-core Intel® Xeon® D-2752TER Processor (Ice Lake D HCC)
BIOS	AMI
SIO	IT8786E
Memory	8 DDR4 UDIMM/RDIMM 2933MHz, up to 512GB (ECC support by UDIMM only)
OS	Windows 10, Windows Server, Linux

I/O Interface

Serial	4 COM RS-232/422/485
USB	- 2 USB 3.0 Type-A - 2 USB 2.0 Type-A
Isolated DIO	16 Isolated DIO : 8 DI, 8 DO
Display	VGA : Up to 1920 x 1080 @60Hz
LED	Power, HDD, Wireless
SIM Card	1 External Nano SIM Card Socket

Expansion

PCIe	1 PCIe x16 slot with PCIe x2 signal (Gen 4)
M.2	- 1 M.2 Key B Socket (3042/3052/2280, PCIe x2/USB 3.0) - 1 M.2 Key E Socket (2230, PCIe x1)

Storage

SATA	2 SATA III (6Gbps) support software RAID 0, 1 - 2 Front-access 2.5" SSD/HDD Tray
M.2	1 M.2 Key M Socket (2280/22110, PCIe x2/SATA)
U.2	10 U.2 Front-access tray (PClex4) support RAID 0, 1, 5, 10 *M.2 supported by optional accessory

Ethernet

LAN 1 to LAN 4	Intel® I350 GigE LAN
LAN 5 to LAN 6	10G SFP+ LAN by Intel® Xeon® SoC (OS Windows Server support only)

Power

Power Input	DC 16V to 50V
Power Interface	2-pin Terminal Block : V+, V-
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Terminal Block

Out-of-Band Management

MCU	Nuvoton NUC980
Interface	OOB LAN, 10/100Mb Ethernet LAN, RJ45 Connector
Remote Management	Support Remote Power ON/OFF, Reset and Power Cycling

Others

TPM	Infineon SLB9670 supports TPM 2.0, SPI Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Mgmt.	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	243.5mm x 271.3mm x 390.0mm (9.58" x 10.68" x 15.35")
Weight	7.9kg (17.41lb)
Mounting	Wallmount by mounting bracket

Environment

Operating Temperature	-25°C to 65°C (-13°F to 149°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @65°C
Vibration	MIL-STD-810G method 514.6, Category 4
Shock	MIL-STD-810G method 516.6, Procedure I
EMC	CE, FCC, ICES, EN50155, EN50121-3-2

Order Information

Model	CPU	LAN		PCIe x2	U.2 Tray	SSD Tray	Power Input
		10G SFP+	1G				
ICS-1110S-2876NT	D-2876NT			1	10	2	DC
ICS-1110S-2752TER	D-2752TER	2	4				

Dimensions & Drawing

Unit : mm (inch)

