

# ICS

# 1110S



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



## ▲ Data Storage

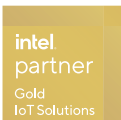
- Server-level Platform : Intel® Xeon® D-2800/D-2700 Processor (Eddy Lake D), supports up to 22 cores
- 2 10G SFP+, 4 GigE LAN, 4 USB, 16-bit Isolated DIO
- 2 Front-access 2.5" SSD/HDD Tray, 10 M.2/U.2 PCIe x4 Storage Devices with Intel® VROC Key supports RAID 0, 1, 5, 10
- Multiple 5G/WiFi 6/4G/LTE/GPRS/UMTS
- 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



## ▼ Data Protection



## ▲ Data Management



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## Specifications

### System

|           |                                                                                                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------|
| Processor | - 16-core Intel® Xeon® D-2876NT Processor (Eddy Lake D HCC)<br>- 12-core Intel® Xeon® D-2752TER Processor (Ice Lake D HCC) |
| BIOS      | AMI                                                                                                                        |
| SIO       | IT8786E                                                                                                                    |
| Memory    | 8 DDR4 UDIMM/RDIMM 2933MHz, up to 512GB<br>(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<br>- 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)<br>- 1 M.2 Key E Socket (2230, PCIe x1) |

### Storage

|      |                                                                                                   |
|------|---------------------------------------------------------------------------------------------------|
| SATA | 2 SATA III (6Gbps) support software RAID 0, 1<br>- 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 (PCIe4) support RAID 0, 1, 5, 10<br>*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<br>(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 | 0°C to 60°C (32°F to 140°F)            |
| Storage Temperature   | -40°C to 85°C (-40°F to 185°F)         |
| Humidity              | 5% to 95% Humidity, non-condensing     |
| Relative Humidity     | 95% @60°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    |

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## Order Information

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

### Accessories

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| DDR4 64G           | Certified DDR4 64GB 2933MHz RAM (RDIMM only)                                                   |
| DDR4 32G           | Certified DDR4 32GB 2933MHz RAM                                                                |
| DDR4 16G           | Certified DDR4 16GB 2933MHz RAM                                                                |
| DDR4 8G            | Certified DDR4 8GB 2933MHz RAM                                                                 |
| PWS-480W-WT        | 480W, 24V, 90V AC to 264V AC Power Supply                                                      |
| TMK2-20P-100       | Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm                                    |
| TMK2-20P-500       | Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm                                    |
| TMB-TMBK-20P       | Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting                  |
| M.2 Storage Module | M.2 Key M/Key B Storage Module                                                                 |
| U.2 Storage Module | U.2 Storage Module                                                                             |
| VROC Key           | - VROC Key Standard (supports RAID 0, 1, 10)<br>- VROC Key Premium (supports RAID 0, 1, 5, 10) |
| M.2 to U.2 Module  | M.2 to U.2 Module                                                                              |
| 5G Module          | 5G Module with Antenna                                                                         |
| 4G Module          | 4G/GPS Module with Antenna                                                                     |
| WiFi & Bluetooth   | WiFi & Bluetooth Module with Antenna                                                           |

## Dimensions & Drawing

Unit : mm (inch)

