

IEC61850-3 Certified Industrial Computer for Digital Substation



Preliminary Specifications

Platform

CPU	Intel® Xeon® 6 Processor Sierra Forest-SP/6710E 64C/64T 2.4GHz Single Socket
SOM TDP	up to 205W
Security Acceleration	Intel® QuickAssist Technology
BIOS	AMI SPI Flash BIOS

System Memory

Technology	8x DDR5 6400 MHz RDIMM with ECC
Max. Capacity	512 GB

Ethernet

Interface	4x 2.5GbE RJ45; (By SKU) 4x 25GbE SFP28 or 2x GbE SFP & 2x 10GbE SFP+ or 2x GbE RJ45 & 2x 10GbE RJ45 w SRIOV
Speed	10/100/1000/2500 Mbps
Bypass	N/A

LOM/OOB

Type	IPMI
Interface	1x RJ45
OPMA Slot	Yes

I/O Interface

Reset Button	1
Serial	1x RJ45 Console
Display	1x VGA
USB	5x USB 3.1 Gen1

Storage

HDD/SSD Support	4x 2.5" U.2 NVMe Hot-Swappable Drive Bays
Onboard Slots	1x M.2 2280/22110 M-Key (PCIe Gen5)

Features

- Intel® Xeon® 6 Processor (Sierra Forest-SP)
- DDR5 Memory Up to 512GB
- 4x 2.5GbE RJ45; 4x 25GbE SFP28 or 2x GbE SFP & 2x 10GbE SFP+ or 2x GbE RJ45 & 2x 10GbE RJ45 w SRIOV (by SKU)
- 1x Console, 5x USB 3.1, 1x VGA
- 2x FHFL PCIe x16, 1x FHFL PCIe Gen5 x8, 1x FHFL PCIe Gen5 x4
- 4x 2.5" U.2 NVMe Hot-Swappable Drive Bays, 1x M.2 2280/22110 M-Key (NVMe)
- IP30-rated 3U Rackmount, Smart Fan

Expansion

PCIe	2x FHFL PCIe Gen5 x16 1x FHFL PCIe Gen5 x8 1x FHFL PCIe Gen5 x4
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Miscellaneous

Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	TPM 2.0

Cooling

Processor	Passive CPU Heatsink
System	3x Smart Fan

Environmental Parameters

Temperature	-40°C~55°C
Humidity (RH)	5~90% Operating 5~95% Non-Operating

System Dimensions

WxHxD	438 x 131.8 x 455 mm
Weight	TBD
Form Factor	3U 19" Rackmount, IP30

Power

Type/Watts	Dual Power Input Up to 750W each
Input	±100 ~ 240VAC / ±110 ~ 240VDC

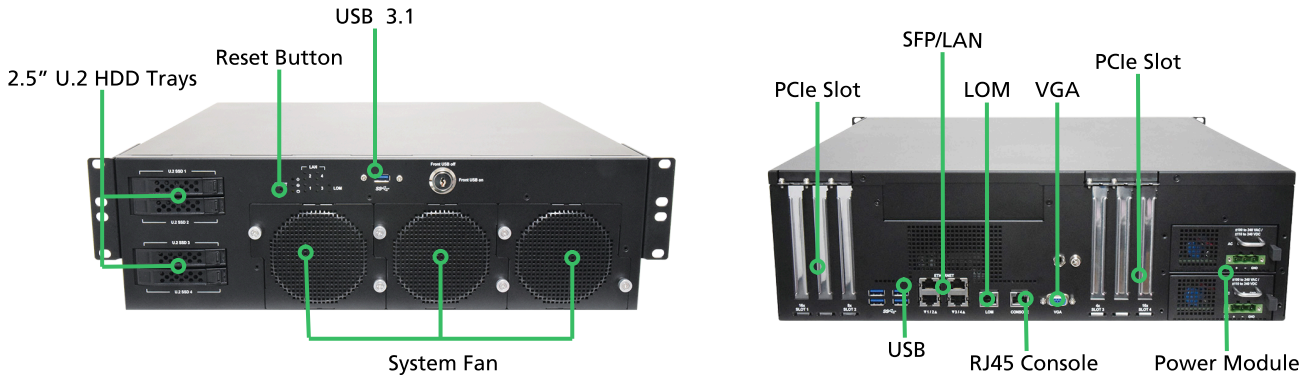
Driver Support

OS	Linux
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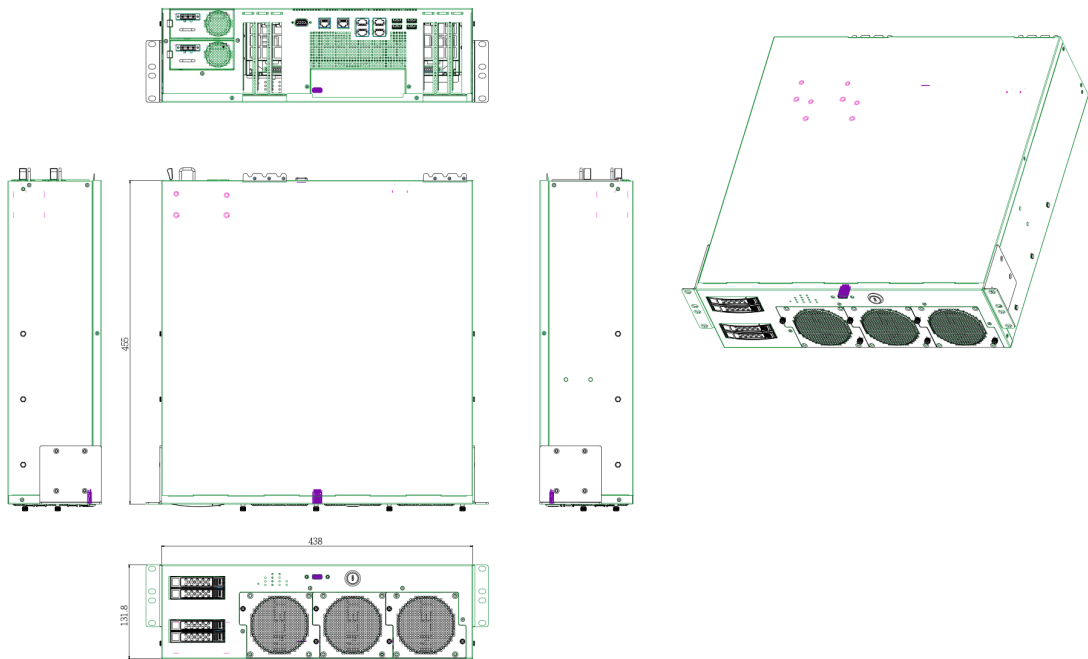
Certification

EMC	CE/UKCA, FCC Class A, RoHS, MTBF
Safe	EN 50121-4, UL + CB, IEC-61850-3, IEEE 1613

Product I/O View



Dimensions (WxHxD): 438 x 131.8 x 455 mm



Ordering Information

SKU	CPU	Memory	Ethernet	I/O	LOM/OOB	Power
ICS-P770A	Intel® Xeon® 6710E	DDR5 up to 512GB	4x 2.5GbE RJ45 4x 25GbE SFP28	1x RJ45 Console 5x USB3.1 Gen1 1x VGA	1x RJ45 IPMI	±100 ~ 240VAC/ ±110 ~ 240VDC
ICS-P770B			4x 2.5GbE RJ45 2x GbE SFP 2x 10GbE SFP+			
ICS-P770C			4x 2.5GbE RJ45 2x GbE RJ45 2x 10GbE RJ45			
ICS-P770D			4x 2.5GbE RJ45			