



Specifications

SYSTEM	Processor	1st Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket: Intel® Xeon® Platinum 8160T (24 Cores, 27.5M Cache, up to 3.7 GHz); 150W Intel® Xeon® Gold 6138T (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6138 (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6130T (16 Cores, 22M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6130 (16 Cores, 22M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6126T (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6126 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 5120T (14 Cores, 19.25M Cache, up to 3.2 GHz); 105W Intel® Xeon® Gold 5119T (14 Cores, 19.25M Cache, up to 3.2 GHz); 85W Intel® Xeon® Gold 5118 (12 Cores, 16.5M Cache, up to 3.2 GHz); 105W Intel® Xeon® Silver 4116T (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4116 (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4114T (10 Cores, 13.75M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4110 (8 Cores, 11M Cache, up to 3.0 GHz); 85W Intel® Xeon® Silver 4109T (8 Cores, 11M Cache, up to 3.0 GHz); 70W Intel® Xeon® Bronze 3106 (8 Cores, 11M Cache, 1.7 GHz); 85W 2nd Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket: Intel® Xeon® Gold 6252N (24 Cores, 35.75M Cache, up to 3.6 GHz); 150W Intel® Xeon® Gold 6238T (22 Cores, 30.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 6230T (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W Intel® Xeon® Gold 6230N (20 Cores, 27.5M Cache, up to 3.5 GHz); 125W Intel® Xeon® Gold 6230 (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W Intel® Xeon® Gold 6226 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W Intel® Xeon® Gold 5220T (18 Cores, 24.75M Cache, up to 3.9 GHz); 105W Intel® Xeon® Gold 5218T (16 Cores, 22M Cache, up to 3.8 GHz); 105W Intel® Xeon® Gold 5218N (16 Cores, 22M Cache, up to 3.7 GHz); 110W Intel® Xeon® Gold 5215 (10 Cores, 13.75M Cache, up to 3.4 GHz); 85W Intel® Xeon® Silver 4216 (16 Cores, 22M Cache, up to 3.2 GHz); 100W Intel® Xeon® Silver 4215 (8 Cores, 11M Cache, up to 3.5 GHz); 85W Intel® Xeon® Silver 4214 (12 Cores, 16.5M Cache, up to 3.2 GHz); 85W Intel® Xeon® Silver 4210 (10 Cores, 13.75M Cache, up to 3.2 GHz); 85W Intel® Xeon® Silver 4209 (8 Cores, 11M Cache, up to 3.2 GHz); 70W	
	Chipset	Intel® C622 Chipset	
	Memory	12 x 288-pin RDIMM up to 384GB	Single Channel DDR4 up to 2133/2400/2666/2933 MHZ (Support Intel DC Persistent Memory)
	BIOS	Insyde	
	GRAPHICS	Display	1 x VGA (opt.)
	Single Displays	VGA (opt.)	
EXPANSION	Interface	4 x PCIe x16 (Gen 3) 1 x PCIe x8 (Gen 3) 1 x PCI 1 M.2 M key2280 (PCIe Gen3 x4 NVMe/SATA) 1 x BMC Module slot for SEM2500/2510 (IPMI) 1 x 100GbE slot (x4 + x8) for EXT-100GbE proprietary module	
AUDIO	Audio Codec	ALC887	
ETHERNET	Controller	2 x Intel® I210AT (10/100/1000Mbps), 1 x Intel x557-AT2 (10GbE)	
REAR I/O	Serial	1x RS-232 (DB-9)	
	Ethernet	2 x GbE (RJ-45)	IPMI 2.0: 1 share w/ i210AT (opt.)
	USB	4x USB 3.1 Gen1	2x USB 2.0 stack (opt.w/ RJ45+USB2.0 stack)
	Display	1 x VGA (opt.)	
INTERNAL I/O	Serial	1x RS-232	
	USB	1 x USB 2.0 header (2x USB 2.0) 1 x USB 2.0 vertical Type A 1 x USB 3.1 Gen1 header (2x USB 3.1 Gen1)	
	SATA	8 x SATA 3 (up to 6Gb/s)	RAID 0/1/5/10
	SMBus	1 x SMBus	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 sec/Min	
SECURITY	TPM	TPM 2.0 (opt.)	
POWER	Type	ATX	
	Connector	8-pin ATX 12V power	24-pin ATX power
	Consumption	TBD	
	RTC Battery	CR2032 Coin Cell	
OS SUPPORT		Windows 10 IoT Enterprise LTSB R55(64-bit) Windows Server 2019 Windows Server 2016	Linux
ENVIRONMENT	Temperature	Operating: 0 to 40°C	Storage: -40 to 85°C
	Humidity	Operating: 5 to 90% RH	Storage: 5 to 90% RH
	MTBF	TBD	
MECHANICAL	Dimensions	EATX Form Factor	305mm (12") x 330mm (13")
	Height	PCB: TBD	Top Side: TBD mm Bottom Side: TBD

Packing List

• 1 PR810-C622 motherboard	
• 1 I/O shield	
• 1 M.2 screw for 2280	A32-112016-041G
• 1 CPU clip	348-436471-100G
• 1 SEM 2500/2510 (by orderd P/N)	

Optional Items

• USB 2.0 port cable (Length: 350mm)	A81-001066-016G
• SATA cable (Length: 500mm)	332-553001-005G
• USB 3.1 Gen1 cable (Length: 320mm)	A81-001052-023G
• LGA3647 cooler	A71-101400-000G

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660