

# RUGGED PORTABLE COMPUTER

17.3" LCD 1920x1080 Rugged Aluminum Enclosure with rubber corners, Supermicro X12SPL-F, ATX Server board, CPU supports up to 270W TDP, Intel Xeon Silver 4314 Processor Chipset: Intel C621A with Resistive Touch

Model: BPC1730-X12SPL-F



## FEATURES:

- Sturdy aluminum alloy build featuring shock-absorbing rubber corners
- Inclusion of an integrated 17.3" Full HD LCD Display boasting a resolution of 1920x1080
- Compatibility with 7 Slots ATX Form Factor
- Equipped with a space-saving 1U 600W Full Range Power Supply
- Optional touchscreen functionality for enhanced user interaction
- Versatile storage options with support for 2x 5.25", 1x hidden 2.5" bay, and slim DVD-RW drive bays
- Integration of a built-in keyboard and touchpad for seamless user input.



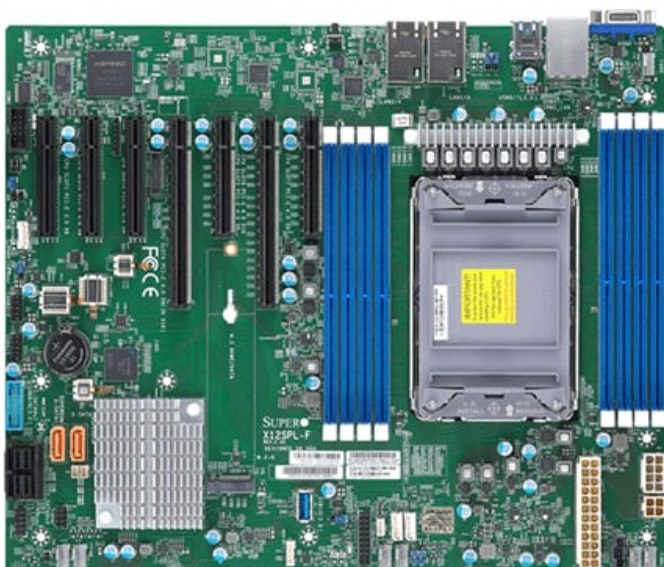
## SPECIFICATION:

<b>Chassis</b>	Rugged Aluminum portable enclosure with rubber corners	
<b>Display</b>	17.3" LCD (1920x1080 Resolution) VGA connector or DVI or DP if adding video card	
<b>Touch Screen</b>	Resistive USB interface Touch Screen	
<b>K/B &amp; Mouse</b>	Foldable USA language keyboard w/touchpad	
<b>Mainboard</b>	Supermicro X12SPL-F, ATX Server board, CPU supports up to 270W TDP	
<b>Slots Layout</b>	"1 PCIe 4.0 x16, 1 PCIe 4.0 x8 (in x16 slot), 2 PCIe 4.0 x8,, 3 PCIe 3.0 x8"	
<b>CPU Type</b>	Intel Xeon Silver 4314 Processor 16 CORE 2.4GHz 24MB 135W FC-LGA4189	
<b>Chipset</b>	Intel® C621A Chipset	
<b>Memory</b>	256GB ECC DDR4 RDIMM (4x64GB)	
<b>Video</b>	On-Board Graphic, Aspeed AST2600 BMC (Reserved VGA Port) or Add video card (optional)	
<b>Data Drive</b>	Crucial 2.5" 4TB SSD, CT4000MX500SSD1 (Installed into the removable kit)	
<b>OS Drive</b>	Samsung Solid State Drive MZ-V8P1T0B/AM 980 PRO 1TB PCI Express NVMe M.2	
<b>Ports</b>	5x USB 3.2 Ports(2 rear, 2 via header, 1 Type A), 6x USB 2.0 Port (2 rear, 4 via headers), 1x VGA Port, 1x COM Port(via 1 header), 2x RJ45 LAN Ports	
<b>Removable Kit</b>	4x Removable Drive Bay Hotswap 2.5" SSD/HDD, ICY DOCK Storage MB994SP Series	
<b>LAN</b>	Dual LAN with Intel® i210 Gigabit Ethernet Controller	
<b>Optical Drive</b>	Optical Drive	
<b>Audio</b>	N/A (PCIe Sound card required if needed)	
<b>Power Supply</b>	1U, 600W, 100~240VAC, Auto switch	
<b>Software</b>	Microsoft Windows OS	
<b>Cargo Case:</b>	Pelican Air Cargo Case 1620 with foam	
<b>Warranty</b>	Standard One Year Limited Warranty - Parts and Labor	
<b>Chassis Dimension</b>	417Wx 352Hx 186D mm (16.42"x 13.86"x 7.32")	
<b>17" Resistive touch screen</b>		
<b>NVIDIA GeForce GT710 2G DDR3 PCI-E Video Card</b>		
<b>SWE-Windows 11 Pro (64-bit, DVD)</b>		
<b>SWE-SERVER2019 Essential (64-bit, DVD)</b>		
<b>SWE-SERVER2019 Standard-Base License (16 Core, DVD)</b>		
<b>Environment</b>	Operating	Non-Operating
<b>Temperature</b>	0°C~50°C	-20°C~60°C
<b>Relative Humidity</b>	10%~90%	10%~95%
<b>Approval</b>	CE, FCC, RoHS	

\*Specifications subject to change without notice, not responsible for typographical errors.

Modified Date: 03-05-2024

## MOTHERBOARD SPECS (X12SPL-F)



### FEATURES:

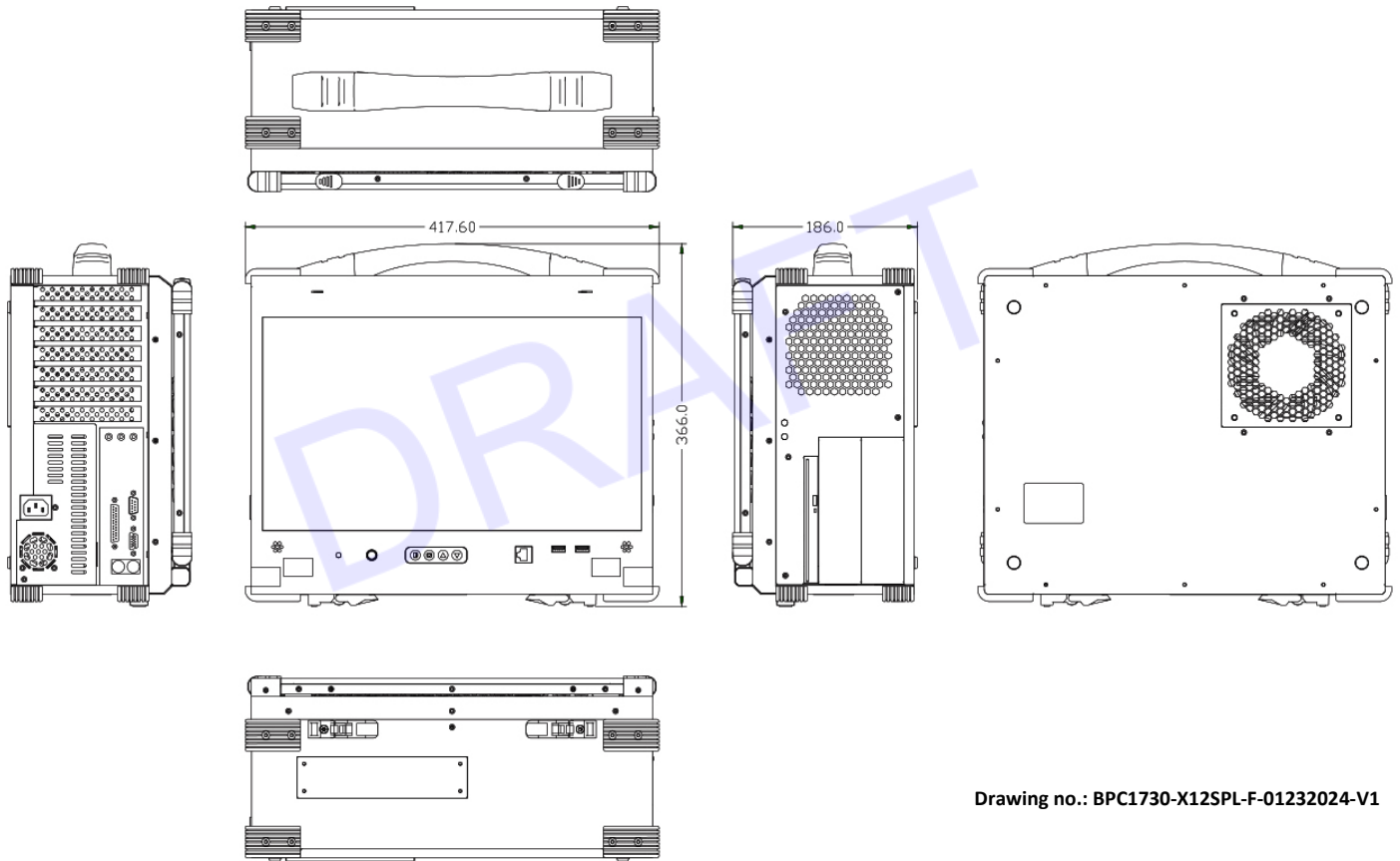
- 3rd Gen Intel® Xeon® Scalable processors, Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
- Intel® C621A
- Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz
- Up to 2TB Intel® Optane™ Persistent Memory, in 8 DIMM slots
- 2 PCIe 4.0 x8,  
1 PCIe 4.0 x16,  
1 PCIe 4.0 x8 (in x16 slot)  
3 PCIe 3.0 x8
- M.2 Interface: 1 SATA/PCIe 3.0 x4  
M.2 Form Factor: 2280/22110  
M.2 Key: M-Key
- Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- Dual LAN with Intel® i210 Gigabit Ethernet Controller

Physical Stats	
Form Factor	ATX
Dimension	12.1" x 10" (30.73cm x 25.4cm)
Processor	
CPU	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Core	Up to 40 cores
System Memory	
Memory Capacity	8 DIMM slots Up to 2TB Intel® Optane™ Persistent Memory 200 Series Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz
Memory Type	3200/2933/2666 MT/s ECC , DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes	8GB, 16GB, 32GB, 64GB, 128GB, 256GB
Memory Voltage	1.2V
Error Detection	Corrects single-bit errors
On-Board Devices	
Chipset	Intel® C621A
SATA	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	ASPEED AST2600 BMC
Graphics	1 ASPEED AST2600 BMC port(s)
Network Controllers	Dual LAN with Intel® i210 Gigabit Ethernet Controller
Input / Output	
SATA	10 SATA3 (6Gbps) port(s)
LAN	2 RJ45 Gigabit Ethernet LAN ports
USB	6 USB 2.0 port(s) (4 via header; 2 rear) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)
MTBF	1 VGA port(s)
Serial Port	1 COM Port(s) (1 header)
DOM	2 SATA DOM (Disk on Module) power connector support
TPM	1 TPM Header
Expansion Slots	
PCIe	1 PCIe 4.0 x16, 1 PCIe 4.0 x8 (in x16 slot), 2 PCIe 4.0 x8, 3 PCIe 3.0 x8
M.2	M.2 Interface: 1 SATA/PCIe 3.0 x4 Form Factor: 2280/22110 Key: M-Key

<b>System BIOS</b>	
BIOS Type	AMI UEFI
BIOS Features	ACPI 6.2 SMBIOS 3.0 or later UEFI 2.7
<b>Management</b>	
Software	Redfish API, Supermicro Server Manager (SSM), Supermicro Power Manager (SPM), Supermicro Update Manager (SUM), SuperDoctor® 5, Super Diagnostics Offline , KVM with dedicated LAN , IPMI 2.0
Power Configurations	Power-on mode for AC power recovery, ACPI Power Management, CPU thermal trip support for processor protection
Security	
Hardware	Trusted Platform Module (TPM) 2.0
<b>PC Health Monitoring</b>	
Voltage	VBAT, System temperature, Monitors CPU voltages, HT, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, 7-fan status
LED	UID/Remote UID Suspend static indicator LED CPU / System Overheat LED
Temperature	CPU thermal trip support PECI
FAN	7x 4-pin fan headers (up to 7 fans) System level control PWM fan speed control Fan speed control Overheat LED indication
Other Features	WOL, UID, RoHS, Chassis intrusion header, Chassis intrusion detection, ATX Power connector, ACPI power management, RoT
<b>Operating Environment</b>	
Operating Temperature Range	0°C - 50°C (32°F - 122°F)
Non-Operating Temperature Range	-40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	10% - 85% (non-condensing)
Non Operating Relative Humidity Range	10% - 95% (non-condensing)

# MECHANICAL DRAWINGS:

*This is subject to change without Notice. Final Drawings Will be Provided for Approval after Order.*



Drawing no.: BPC1730-X12SPL-F-01232024-V1