



HIGH BRIGHTNESS - RUGGED PORTABLE COMPUTER



17.3" LCD 1920x1080, 1000nits Rugged Aluminum Enclosure with rubber corners, Supermicro X14SBI-F, ATX Server board, CPU supports Intel XEON 6 Series Processor **Intel® Xeon® 6731P Processor** Chipset: System on Chip with Resistive Touch **NVIDIA GeForce GT1030 1G DDR3 PCI-E Video Card**

Model: BPC1730HB-X14-X6

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
- 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.



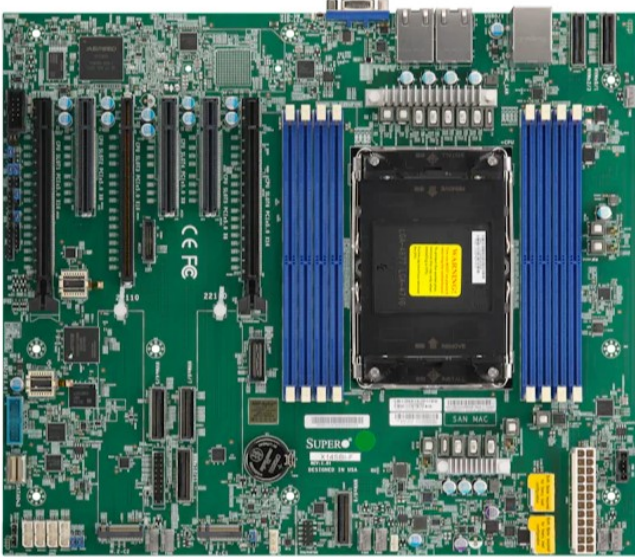
SPECIFICATION:

Chassis	Rugged Aluminum portable enclosure with rubber corners	
Display	17.3" LCD (1920x1080 Resolution) VGA connector or DVI or HDMI if adding video card	
High Brightness	***1000 nits high brightness LCD display***	
Touch Screen	Resistive USB interface Touch Screen	
K/B & Mouse	Foldable USA language keyboard w/touchpad	
Mainboard	Supermicro X14SBI-F, ATX Server board	
Slots Layout	3 PCIe 5.0 x8 slots 3 PCIe 5.0 x16 slots	
CPU Type	Intel® Xeon® 6731P Processor 144M Cache, 32 Cores 2.50 GHz (Max Turbo 4.1GHz)	
TPM	Onboard TPM9672	
Chipset	System on Chip	
Memory	256GB ECC DDR5 RDIMM (4x64GB)	
Video Card 1	NVIDIA GeForce GT1030 1G DDR3 PCI-E Video Card	
Video Card 2	N/A	
Open Slots	3 PCIe 5.0 x16, 2 PCIe 5.0 x8	
Open M.2 slot	1x M.2 PCIe 5.0 x2 slot (M-key 22110) open after system integration	
Data Drive	Micron 2.5" U.3 SSD 3.84 TB PCIe NVMe 4.0 x4 (Installed into the removable kit)	
OS Drive	Samsung 4TB 9100 PRO PCIe 5.0 M.2 Internal SSD with Heatsink + M.2 22110 carrier	
Ports	2x RJ45 1 GbE LAN port(s) 1x RJ45 1 GbE Dedicated IPMI LAN port(s) 2 USB 3.2 Gen1 port(s) (Rear) 1 VGA D-Sub Connector port(s)	
Removable Kit	ToughArmor MB699VP-B V3, 4 Bay 2.5" U.2/U.3 NVMe SSD PCIe 4.0 Mobile Rack Enclosure	
MCIO Cables	2x MCIO 8i SFF-TA-1016 to 2x Oculink 4i SFF-8611 Cable	
LAN	Dual LAN with Intel® i210 Gigabit Ethernet Controller	
Optical Drive	Slim DVDRW + Mounting kit	
Audio	N/A (PCIe Sound card required if needed)	
Power Supply	1U, 600W, 100~240VAC, Auto switch	
Software	Microsoft Windows 11 Pro OS	
Cargo Case:	Pelican Air Cargo Case 1620 with foam (Optional)	
Warranty	Standard One Year Limited Warranty - Parts and Labor	
Chassis Dimension	417Wx 352Hx 186D mm (16.42"x 13.86"x 7.32")	
Environment	Operating	Non-Operating
Temperature	0°C~50°C	-20°C~60°C
Relative Humidity	10%~90%	10%~95%
Approval	CE, FCC, RoHS	

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

Modified Date: 06-05-2026

MOTHERBOARD SPECS (X14SBI-F)



FEATURES:

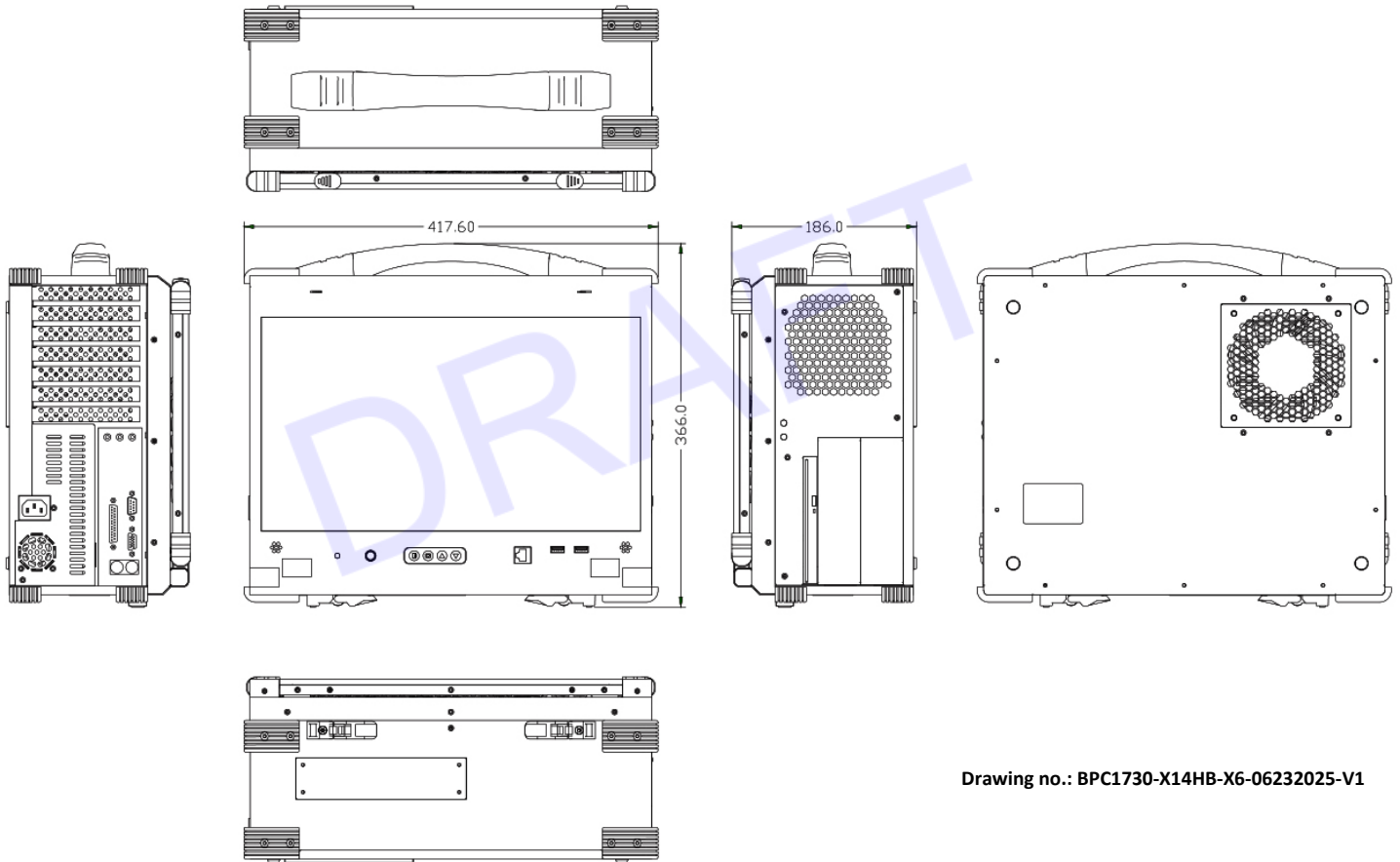
- Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores, Single Socket LGA-4710 (Socket E2) supported, CPU TDP up to 350W
- Up to 2TB ECC RDIMM DDR5-6400MT/s and up to 512GB MRDIMM DDR5-8000MT/s in 8 DIMM slots
- 6 PCIe 5.0 x8 via M.2 connectors (JNVME3-6 are enabled with the specific CPU** installed)
- 3 PCIe 5.0 x16 (SLOT6 is enabled with the specific CPU** installed), 3 PCIe 5.0 x8, M.2 Interface: 2 PCIe 5.0 x2 (Form Factor: 22110, M-Key)
- Dual LAN with 1GbE with Intel® I210
- 4 USB 3.2 Gen1 (2 rear, 2 via header), 4 SATA3 (via SlimSAS x4)
- Onboard TPM9672: TCG2.0, FiP 140-2 Level 2, Intel TXT and Microsoft Windows certification

Physical Stats	
Form Factor	ATX
Dimension	12.3" x 10.5" (31.24cm x 26.67cm)
Processor	
CPU	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores *BIOS 1.2 or above is required to support Intel® Xeon® 6700/6500-series processors with P-cores Specific CPUs: Intel® Xeon® 6781P, 6761P, 6741P, 6731P, 6521P, 6511P
Core	Up to 144C
Note	Supports up to 350W TDP CPUs
System Memory	
Memory	Slot Count: 8 DIMM Slots Max Memory (1DPC): Up to 512GB ECC DDR5 RDIMM
DIMM Sizes	MRDIMM (P-core only): 32GB, 64GB RDIMM: 16GB, 24GB, 32GB, 48GB, 64GB, 96GB, 128GB 3DS RDIMM: 256GB
Memory Voltage	1.1V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	System on Chip
SATA	4 SATA (6Gbps) via ASMedia ASM1164; via SlimSAS
IPMI	ASPEED AST2600 BMC
Network Controllers	Dual LAN with 1GbE with Intel® I210
Input / Output	
LAN	2 RJ45 1 GbE LAN port(s) 1 RJ45 1 GbE Dedicated IPMI LAN port(s)
USB	2 USB 3.2 Gen1 port(s) (Header) 2 USB 3.2 Gen1 port(s) (Rear)
Video	1 VGA D-Sub Connector port(s)
Serial Port	1 COM port(s) (header)
TPM	1 TPM header
Expansion Slots	
PCI-Express (PCIe) Configuration	3 PCIe 5.0 x8 slots 3 PCIe 5.0 x16 slots 6 PCIe 5.0 x8 via M.2 Connector slots (PCIe5.0 Slot 6 and JNVME3-6 are enabled with the specific CPU** installed)
M.2	2 M.2 PCIe 5.0 x2 slots (M-key 22110)

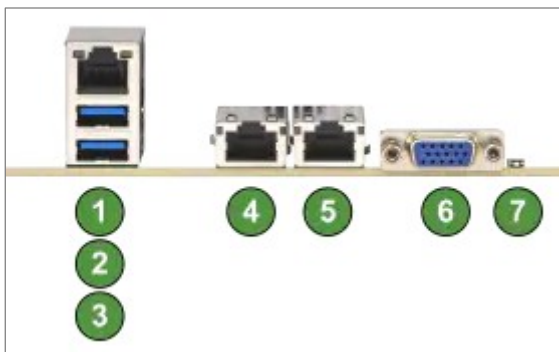
System BIOS	
BIOS Type	AMI 64MB UEFI
BIOS Features	ACPI 6.5 SMBIOS 3.7 or later UEFI 2.9
Management	
Software	SuperCloud Composer® Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New! Plug-ins for 3rd Party Software
Security	
Hardware	Trusted Platform Module (TPM) 2.0
PC Health Monitoring	
Voltage	+12V,+3.3V,+5V,+5V standby,7 -fan status,Chassis intrusion header,Memory Voltages,Monitors CPU voltages,Supports system management utility,System level control,VBAT
LED	CPU/system overheat LED UID/remote UID LED
Temperature	CPU thermal trip support Monitoring for CPU and chassis environment PECI Thermal monitor 2 (TM2) support
FAN	7x 4-pin fan headers (up to 7 fans) Fan speed control Overheat LED indication
Other Features	ACPI power management Chassis intrusion detection Control of power-on for recovery from AC power loss M.2 NGFF connector UID WOL
Operating Environment	
Environmental Spec	Operating Temperature: 0°C to 50°C (32°F to 122°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)

MECHANICAL DRAWINGS:

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

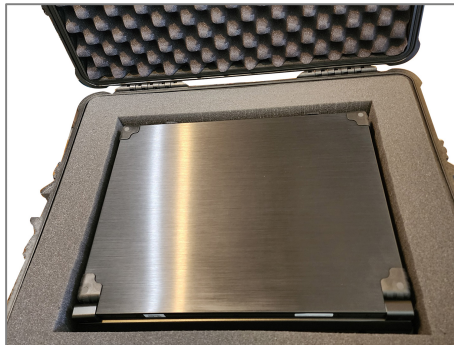


Drawing no.: BPC1730-X14HB-X6-06232025-V1



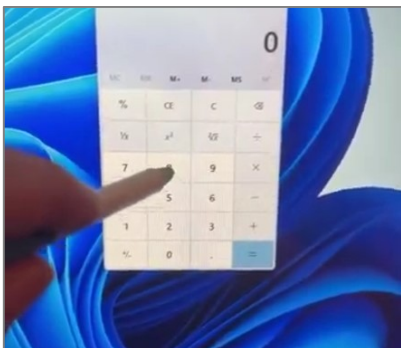
I/O Ports			
#	Description	#	Description
1	BMC_LAN	5	LAN2
2	USB0 (3.2 Gen 1)	6	VGA
3	USB1 (3.2 Gen 1)	7	UID Button
4	LAN1		

ACTUAL PICTURES:



Reference: SO 121321 | Model: BPC1730-X14-X6

TOUCH TEST Video



Click image to Watch