

Lumistar Standard Computer Configurations (September 2026)

Operating System:	Win11 Pro 64-bit unless otherwise denoted; TPM 2.x Modules required
Processor:	Intel i7 14700K ; LGA1700, 14 th Generation; 20 cores (8 performance/12 efficient cores; 28 threads; Up to 5.2GHz, 33MB Cache; DDR5 Memory support up to 5600MT/s Intel Ultra 7 265 ; LGA1851, 15 th Generation; 20 cores (8 performance/12 efficient cores; 20 threads; Up to 5.3GHz, 30MB Cache; DDR5 Memory support up to 6400MT/s Intel i7 10700E ; LGA1200, 10 th Generation; 8 cores; 16 threads; Up to 4.8Ghz; 16MB Cache; DDR4 Memory support up to 2933MT/s
Motherboard:	Model: AIMB-709G2-00A1 ; LGA1851 Processor; H810 Chipset; 288-pin DIMM (Qty 2) 96GB Max.; 1Gbps Ethernet (Qty 1); 2.5Gbps Ethernet (Qty1); Up to two display outputs; IO Panel: VGA, HDMI, Dual Ethernet, USB3.2 (Qty 4), USB 2.0 (Qty 2), COM (Qty 2); Header IO: USB3.2(Qty 5), USB2.0 (Qty 2) COM (Qty 4); SATA 3.0 (Qty 4); PCI 32 Support (Qty 3); PCIe 4.0 x4 Support (Qty 3); PCIe 5.0 x16 Support (Qty 1); 0-60C Operational; TPM 2.0 Capable – Optional Module (PCA-TPMSPI-00A1)
SBC Full Size:	Model: PCE-5132G2-00A3 ; LGA1200 Processor; Q470E Chipset; 288-pin DIMM (Qty 2) 64GB Max.; 1Gbps Ethernet (Qty 2); Up to three display outputs; IO Panel: VGA, USB3.2 (Qty 2), USB 2.0, dual Ethernet; Header IO: USB3.0 (Qty 6), USB2.0 (Qty 5) COM232 (Qty 2); Optional Video: DVI-D, DP; SATA 3.0 (Qty 6); PCIe 3.0 Backplane Support: x16 (Qty1) plus x4 (Qty 1); PCI 32-bit support (Qty 4); 0-60C Operational; TPM 2.0 Capable – Optional Module (PCA-TPM-00B1E)
SBC Half Size:	Model: PCE-4132G2 ; LGA1200 Processor; W480E Chipset; 260-pin SO-DIMM (Qty 2) 64GB Max.; 1Gbps Ethernet (Qty 2); Up to three display outputs; IO Panel: VGA, USB3.2 (Qty 2), USB 2.0, dual Ethernet; Header IO: USB3.0 (Qty 4), USB2.0 (Qty 6) COM232 (Qty 2); Optional Video: DVI-D, DP; SATA 3.0 (Qty 4); PCIe 3.0 Backplane Support: x16 (Qty1) or x8 (Qty 2) plus x1 (Qty 4); 0-60C Operational; TPM 2.0 Capable – Optional Module (PCA-TPM-00B1E)
MiniITX:	Model: AIMB-278Q-EAB1 ; LGA1700 Processor; Q670 Chipset; 262-pin SO-DIMM (Qty 2) 96GB Max.; 2.5Gbps Ethernet (Qty 2); Up to four display outputs; IO Panel: DP (Qty 2), HDMI, USB3.2 (Qty 6), USB 2.0 (Qty 2), dual Ethernet; Header IO: USB2.0 (Qty 2); SATA 3.0 (Qty 3); PCIe 5.0 Support: x16 (Qty1); 0-60C Operational; TPM 2.0 Built-In
SBC ATX Backplane:	Model: PCE-5B13-08A2E Backplane; (8) PCI; (1) PCIe x16; (2) PCIe x8; PCIe x4 (1); PICMG 1.3.
SBC 1U Backplane:	(DISCONTINUED) Model : PCE-5B03V-01A1E Backplane; (1) PCIe x16, (1) PCI 32-bit slot; PICMG 1.3

SBC 2U Backplane: **Model: PCE-5B06V-04A1E** Backplane; (4) PCI; (1) PCIe x16; PICMG 1.3
Model: PCE-5B06V-00A1E Backplane; (1) PCIe x16; (4) PCIe x1; PICMG 1.3

SBC EC Backplane: **Model: PCE-3B06-00A1E** Backplane; (3) PCIe x1; (1) PCIe x16; (1) PCIe x16; PICMG 1.3

PLATFORM DEFINITIONS:

LS-84-EC Ruggedized Chassis (short version)

(Special Order Only; None in stock)

LS-84-ECT Ruggedized Chassis (tall version)

SBC : PCE-4132G2, i7-10700E, LGA1200, Up to 4.8 GHz

16 GB DDR4 RAM (Std)

(2) PCIe x1; (2) PCI 32-bit [require PCIe to PCI adapters], (1) PCIe x16

1 x GB LAN

4 X USB 2.0

Dual Removable Solid-State Drive Bays

1TB SSD Drive; 2nd Drive Optional

1U Power Supply 400W

TPM 2.0 (module required)

LS-84-AP Ruggedized Portable Chassis

Motherboard: AIMB-709G2-00A1, Ultra 7 265, LGA1851, Up to 5.3GHz

VGA/HDMI

16 GB DDR5 RAM

2 x GB LAN

Rear USB: (4) Gen 3.2, (2) Gen 2.0

AP USB: (2) USB2.0

Removable 1TB Drive

ATX Power Supply 400W+

DVD (optional)

TPM 2.0 (module required)

4U Chassis w/ Active Motherboard

Motherboard: AIMB-709G2-00A1, Ultra 7 265, LGA1851, Up to 5.3GHz

VGA/HDMI

16 GB DDR5 RAM

1Gbps Ethernet (2)

Rear USB: (4) Gen 3.2, (2) Gen 2.0

Chassis USB: (2) USB2.0

Removable 1TB Drive

ATX Power Supply 400W+

DVD (optional)

PCI 32-bit (3), PCIe x16 (1), PCIe x4 (3)

TPM 2.0 (module required)

4U Chassis w/ Passive Backplane-SBC

SBC: PCE-5132G2-00A2U, i7-10700, LGA1200, Up to 4.8GHz
VGA
16 GB DDR5 RAM
1Gbps Ethernet (2)
Rear USB: (2) Gen 3.2, (1) USB2.0
(2) USB2.0 Chassis
Removable 1TB – Commercial grade (Industrial grade optional)
ATX Power Supply 400W+
DVD (optional)
PCE-5B13-08A1E backplane
TPM 2.0 (module required)

2U Chassis w/ Passive Backplane-SBC

SBC: PCE-5132G2-00A2U, i7-10700, LGA1200, Up to 4.8GHz
Chassis: ACP-2000EBP-00C Advantech
PCE-5B06V-04A1E backplane: (4) PCI and (1) PCIe x16
or
PCE-5B06V-00A1E backplane: (1) PCIe x16 (4) PCIe x1
1Gbps Ethernet (2)
VGA
16 GB DDR5RAM
Front: (2) USB 2.0 front; Rear: (2) Gen 3.2, (1) USB2.0
DVD (optional)
ATX Power Supply 400W+
Dual 2.5" SSD Removable Drive Bays
1TB removable hard drive; 2nd drive optional
TPM 2.0 (module required)

1U Chassis w/ Passive Backplane-SBC

(Obsolete ; contact factory)

1U Chassis w/Mini-ITX SBC

SBC Motherboard : AIMB-278Q-EAB1
16 GB DDR5 RAM
Display Port (2), HDMI (1)
2.5Gbps Ethernet (2)
Chassis USB: Gen 3.x (2), Gen 2.0 (2)
1TB SSD; not removable
ATX Power Supply 400W+
TPM 2.0 built-in