

FB128-LX



Features

- 1U storage server supports 36 EDSFF (Enterprise Datacenter Small Form Factor), Enterprise and Datacenter 1U short SSD Form Factor to provide a high-density, all NVMe Flash storage array
- Supports 2nd Gen. Intel® Xeon® Scalable processors (Cascade Lake Refresh/Cascade Lake/Skylake)
- With Intel® C620 series chipset to provide 5+ years product life cycle
- Flexible I/O usage with Max I/O® to support 1 x PCIe Gen3 x16 and 1 x PCIe Gen3 x8 add-on cards through riser
- Supports OCP Mezzanine v2.0 cards
- Onboard Baseboard Management Controller for system management and IPMI control
- Front-to-back airflow and easy swap fans to provide optimal thermal conditions

SPECIFICATIONS

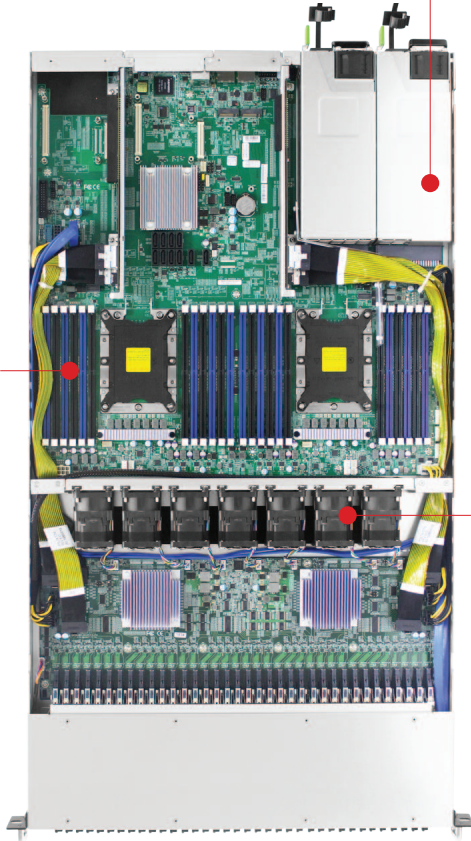
Dimensions (W x D x H)	mm : 438 x 801.2 x 44			Riser Card (included)	RC-PE1U14-TY	1 x8 PCIe slot
	inches : 17.2 x 31.5 x 1.7				RC-PE1U15-TY	1 x16 PCIe slot
Motherboard	AIC Server Board Lynx			System BIOS	BIOS Type	Insyde UEFI BIOS
Processor	Processor Support	<ul style="list-style-type: none"> • Intel® Xeon® Scalable Processors (Cascade Lake Refresh/Cascade Lake/Skylake) • Supports CPU TDP up to 150W <i>*Please contact AIC Technical Support for more info/details about optimized CPUs and specialized system.</i> 			BIOS Features	<ul style="list-style-type: none"> • ACPI • PXE • WOL • AC loss recovery • IPMI 2.0 KCS interface • SMBIOS • Serial console redirection • BIOS Boot Specification • BIOS Recovery Mode • SRIOV • iSCSI • TPM • PCIe Hotplug
	UPI Speeds	10.4 GT/s, 9.6 GT/s				
	Socket Type	Socket P0 (LGA-3647 Socket)				
Chipset Support	Intel® Lewisburg C620 series PCH			On-board Devices	SATA	Intel® Lewisburg PCH on-chip solution <ul style="list-style-type: none"> • 10 x SATA 6.0 Gb/s • RAID 0, 1, 5, 10 support by Intel RSTe
System Memory	<ul style="list-style-type: none"> • 6 x memory channels per CPU, 2 x DIMM per channel • 24 x DIMM slots support: DDR4 2933/2666/2400MHz • Intel® Optane™ DC Persistent Memory (Apache Pass) support 				BMC	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor <ul style="list-style-type: none"> • Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH Support • HTML5 • Redfish
Front Panel	System power on/off, 2 x USB 3.0 Type A			Network Controllers	<ul style="list-style-type: none"> • Two Intel® I210 Ethernet Controller support dual-port GbE RJ45 connectors • Networking options provided via OCP Mezzanine extension • Realtek RTL8201E 10/100Mbps Ethernet PHY for BMC dedicated management port 	
LEDs	Power status, System alert, LAN activity, Drive activity				Graphics	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor <ul style="list-style-type: none"> • PCIe VGA/2D Controller • 1920x1200@60Hz 32bpp
Drive Bays	External	EDSFF	36			
	Internal	M.2	2 x M.2(NGFF) / M-Key / 2280 / Supports SATA or PCIe x2			
Backplane	1 x 36-port EDSFF NVMe SSD backplane, supports Enterprise and Datacenter 1U short SSD form factor, SFF-TA-1006					
Expansion Slots	PCIe 3.0	<ul style="list-style-type: none"> • 1 X16 slot (LP) • 1 x8 slot (LP) • 2 x OCP Mezzanine cards V2.0 <i>*Please contact AIC Technical Support for more info/details about OCP card.</i> 				



TOP VIEW

1600W 1+1 redundant power supply
80+ Platinum

24 DIMM slots
across 12
memory channels



7 x 40x56mm
easy swap fans

Power supply and Server board are included.

REAR VIEW

2 x NIC Cards



2 x OCP Mezzanine Cards v2.0

FRONT VIEW

36 x 1U short SSD form factor hot swap drive bays



2 x USB 3.0

Rear I/O	LAN	<ul style="list-style-type: none"> • 2 x GbE RJ45 • 1 x 10/100M RJ45 dedicated to BMC management
	USB	2 x USB 3.0 Type A
	VGA	1 x external DB-15 VGA port
	Serial Port	1 x micro USB
TPM Support	2.0 onboard	
Power Supply	1600W 1+1 redundant power supply 80+ Platinum • AC INPUT : 200~240V,50/60Hz,12A (except China/Taiwan) • AC INPUT : 200~240V,50/60Hz,10A (for China/Taiwan) 1200W 1+1 redundant power supply 80+ Platinum (BTO) • AC INPUT : 100~127V,50/60Hz,10A • DC OUTPUT : 800W • AC INPUT : 200~240V,50/60Hz,8A • DC OUTPUT : 1200W	

System Cooling	7 x 40x56mm easy swap fans	
System Management	<ul style="list-style-type: none"> • Redfish • Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH Support 	
Environmental Specifications	<ul style="list-style-type: none"> • Storage temperature : -10°C(14°F) ~ 60°C(140°F) • Operating temperature : 0°C(32°F) ~ 35°C(95°F) • Storage operating humidity : 5%~95% non-condensing 	
Gross Weight	(w/ PSU & Rail)	kgs : 28
		lbs : 61.7
Packaging Dimensions	(W x D x H)	mm : 615 x 1145 x 278
		inches : 24.2 x 45 x 10.9
Mounting	Standard	28" tool-less slide rail