

LIT-C4IPC-650-A

4U HIGH-PERFORMANCE RACKMOUNT SERVER CHASSIS
INTEL® CORE™ 14TH/13TH/12TH GEN SUPPORT



Features

- Supports Intel® Core™ 14th/13th/12th Gen Processors (LGA1700)
- Industrial ATX Motherboard with Intel® Q670 Chipset
- Short-Depth 4U Chassis (480mm) for Space-Constrained Racks
- Flexible Storage: 3x 5.25" Ext, 1x 3.5" Ext, 8x 3.5" Int Bays
- Front 120mm Intake Fan with Quick-Release Dust Filter
- Equipped with 650W 80Plus Gold ATX 3.1 Power Supply
- 7x Expansion Slots for Add-on Cards
- Heavy-Duty 1.2mm~2.0mm SGCC Steel Construction

Introduction

The LIT-C4IPC-650-A is a robust 4U rackmount server chassis designed for industrial automation, edge computing, and enterprise storage. Integrating a high-performance industrial motherboard based on the Intel® Q670 chipset, it supports the latest Intel® 12th/13th/14th Gen processors and up to 128GB of DDR5 memory. Its 480mm short- depth design enables installation in space-limited cabinets while providing significant storage flexibility with multiple 5.25" and 3.5" drive bays. Optimized for reliability, the system features a 650W 80Plus Gold ATX 3.1 power supply and a 120mm front intake fan with a quick-release dust filter for easy maintenance. With seven expansion slots and rugged steel construction, the LIT-C4IPC-650-A offers a durable and scalable platform for diverse mission-critical applications.

Specifications

System Core

Processor	Intel® Core™ 14th/13th/12th Gen (LGA1700)
Chipset	Intel® Q670
Memory	4x DDR5 4800MHz DIMM, up to 128 GB
Graphics	Integrated Intel® UHD Graphics 770

Expansion Slots & M.2

Expansion Slots	1x PCIe x16(Gen 4x16), 1x PCIe x16(Gen 4x8) 2x PCIe x4(Gen 3x4), 3x PCIe x1(Gen 3x1)
M.2 Interface	2x M.2 2280/2242 M-Key (PCIe Gen4x4) 1x M.2 2230 E-Key (WiFi/ BT)

I/O Interface

Ethernet	2x 2.5GbE LAN (Intel® I226V/I226LM)
USB	Rear: 4x USB 3.2 Gen1 Front: 2x USB 3.2 Gen1 headers Front: 4x USB 2.0 headers
Display	2x HDMI 2.0, 1x DisplayPort 1.4, 1x D-sub
Serial	1x RS-232/422/485, 4x RS-232, 1x RS-232 (Rear)

Storage Interface

SATA	4x SATA 6Gb/s Ports (RAID 0/1/5/10)
Drive Bays	Ext: 3x 5.25", 1x 3.5" Int: 8x 3.5" HDD
Max Capacity	Total 12 bays max via optional converters

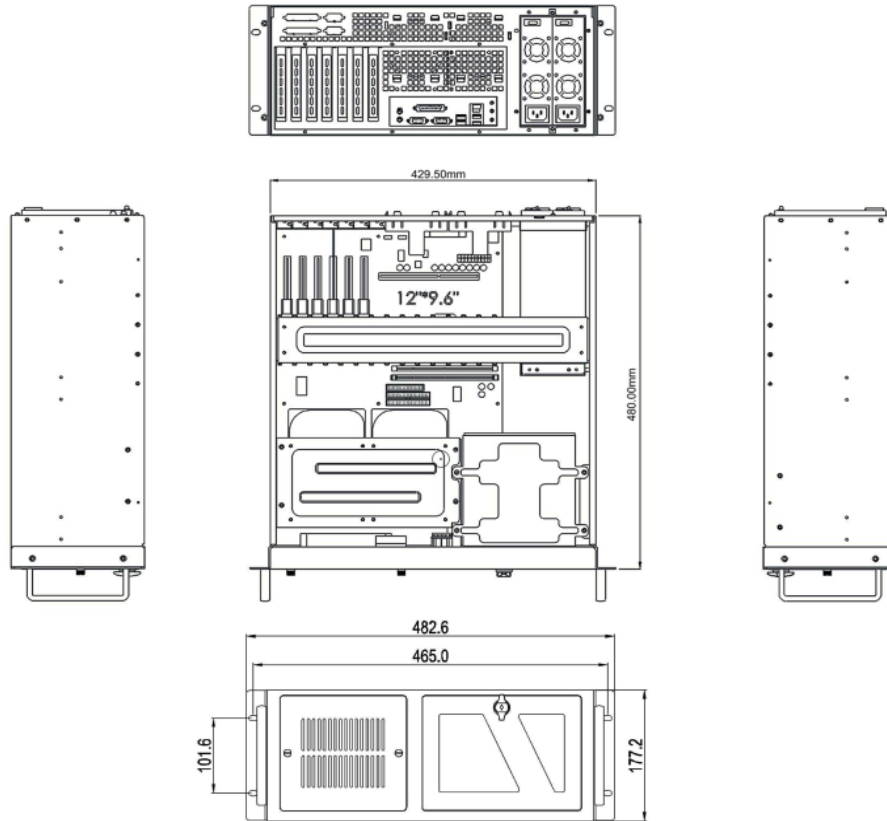
Power & Thermal

Power Supply	650W 80Plus Gold ATX 3.1 Direct Cables (Non-Modular)
Cooling	Front: 1x 120mm Intake Fan (w/ Filter) Rear: 2x 80mm Fan Mounts (Optional)
CPU Cooling	2U Active Cooler (8000RPM)

Mechanical & Environmental

Dimensions	482mm (W) x 177mm (H) x 480mm (D)
Weight	Net: 12.0 kg / Gross: 14.0 kg
Chassis Rear	7-Slot Rear Panel (Max Card: 282mm)
OS Support	Windows 10/11, Linux

Dimensions



Optional Accessories & Ordering Information

A. Power Supply Options

A-1	Standard PS2 power supply (Depth 140mm~220mm)
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B. Rail Kits

B-1	65kg Heavy Duty Slide Rails (Depth 600mm~1200mm)
B-2	Universal Rear Mounting Bracket Kit

C. Cooling Fans

C	80mm x 25mm Rear Exhaust Fan
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D. 3.5" FDD Bay Converters

D-1	3.5" FDD to 2x M.2 NVMe SSD Mobile Rack (64G)
D-2	3.5" FDD to 1x 2.5" U.2 NVMe SSD Mobile Rack (32G)
D-3	3.5" FDD to 1x 2.5" SATA/SAS 12G Hot-Swap
D-4	3.5" FDD to 1x 2.5" SATA/SAS 12G Trayless Hot-Swap
D-5	3.5" FDD to 2x 2.5" SATA/SAS 12G Trayless Hot-Swap

E. 5.25" Single Bay Converters (Part 1)

E-1	1x 5.25" Bay to 1x 3.5" or 2x 2.5" Mounting Bracket
E-2	1x 5.25" Bay to 4x M.2 NVMe SSD Mobile Rack (64Gbps)
E-3	1x 5.25" Bay to 8x M.2 NVMe SSD Mobile Rack (64Gbps)
E-4	1x 5.25" Bay to 1x 3.5" SATA/SAS 12G Hot-Swap
E-5	1x 5.25" Bay to 1x 3.5" SATA/SAS 12G Trayless Hot-Swap
E-6	1x 5.25" to 2x USB 3.0 & 2x 2.5" U.2 NVMe (32G)
E-7	1x 5.25" Bay to 2x 2.5" U.2 NVMe SSD (32G)
E-8	1x 5.25" Bay to 2x 2.5" SATA/SAS 12G Hot-Swap
E-9	1x 5.25" Bay to 6x 2.5" SATA/SAS 12G Hot-Swap

E. 5.25" Single Bay Converters (Part 2)

E-10	1x 5.25" Bay to 8x 2.5" SATA/SAS 6G Hot-Swap
E-11	1x 5.25" Bay to 4x 2.5" U.2 NVMe SSD (32G)
E-12	1x 5.25" to 4x 2.5" Hot-Swap (SFF-8643 12G)
E-13	1x 5.25" Bay to 4x 2.5" SATA/SAS 12G Hot-Swap
E-14	1x 5.25" Bay to 4x 2.5" SATA/SAS 6G Hot-Swap

F. 5.25" Dual Bay Converters

F-1	2x 5.25" Bays to 3x 3.5" Mounting Bracket
F-2	2x 5.25" Bays to 3x 3.5" SATA/SAS 12G Hot-Swap
F-3	2x 5.25" Bays to 3x 3.5" SATA/SAS 12G Trayless

G. 5.25" Triple Bay Converters

G-1	3x 5.25" Bays to 5x 3.5" Mounting Bracket
G-2	3x 5.25" to 4x 3.5" Hot-Swap (SFF-8643 12G)
G-3	3x 5.25" to 4x 3.5" SATA/SAS 12G Hot-Swap
G-4	3x 5.25" to 4x 3.5" Trayless (SFF-8643 12G)
G-5	3x 5.25" to 4x 3.5" SATA/SAS 12G Trayless
G-6	3x 5.25" to 5x 3.5" SATA/SAS 12G Hot-Swap
G-7	3x 5.25" to 5x 3.5" SATA/SAS 12G Trayless

H. Cabling

H-1	Mini-SAS (SFF-8087) to 4x SATA Cable
H-2	Mini-SAS HD to Mini-SAS HD Cable
H-3	4x SATA to Mini-SAS HD (SFF-8643) Cable
H-4	Mini-SAS HD (SFF-8643) to 4x SATA Cable

LIT Li Tang Technology INC.

14F-7, No. 33, Sec. 2, Jianguo N Rd, Zhongshan Dis., Taipei City, 10479, Taiwan

Tel : +886-2-2506-6633

Fax : +886-2-2506-5080

WEB: <http://www.lit-tech.com.tw>