



EC220/EC221 Series

Atom

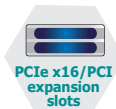


Features

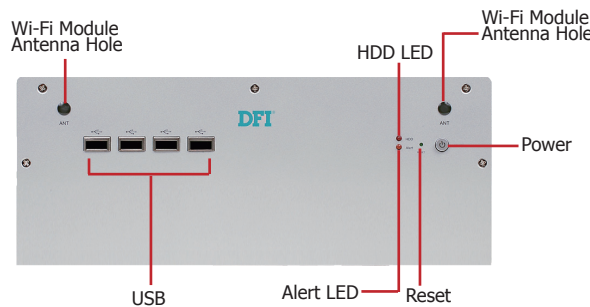
- Fanless, compact design for industrial applications
- Supports DDR3 SODIMM, up to 4GB
- 1 2.5" SATA drive bay, 1 CF socket
- PCIe x1 and PCI expansions

EC220/EC221 T Series

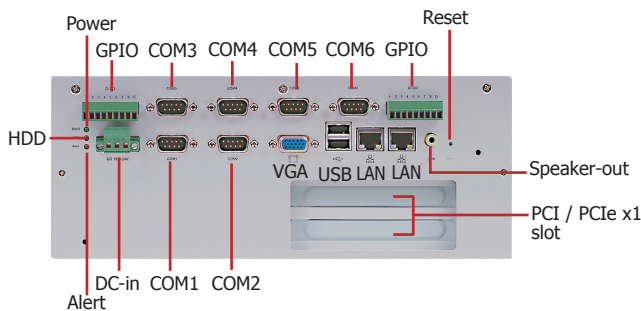
- * Wide voltage: 9V~36V
- * Wide temperature: -20°C~70°C



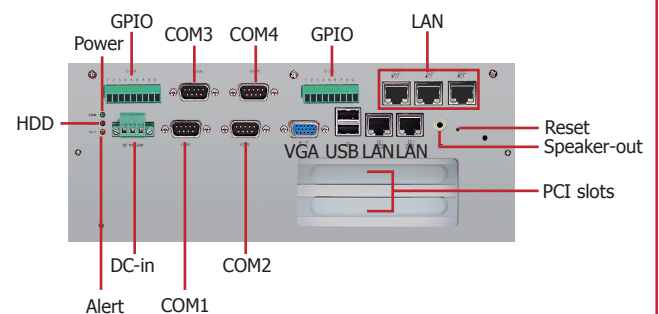
Panel



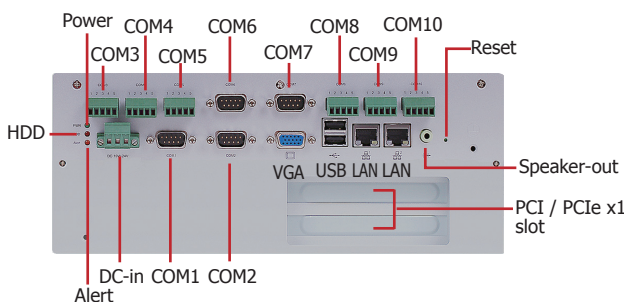
Front View



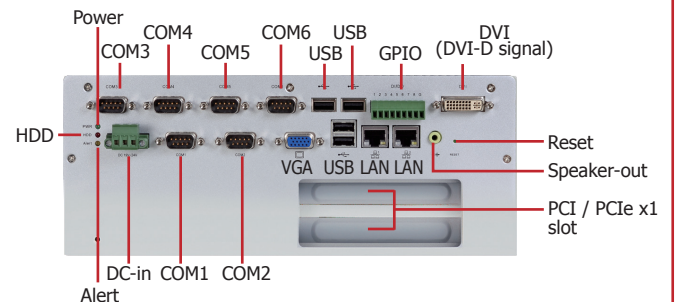
EC220-LR6G60 Rear View



EC220-LR4G65 Rear View



EC220-LRA060 Rear View



EC220/EC221-LRT6881 Rear View

EC220/EC221 Series

► Specifications * Optional and is not supported in standard model. Please contact your sales representative for more information.

PROCESSOR SYSTEM

- CPU: Intel® Atom™ D525
 - Dual-core, 1.8GHz, 1M cache
- Chipset: Intel® ICH8M

MEMORY

- 2 DDR3 800MHz SODIMM sockets
- Supports up to 4GB memory
- Single channel memory interface

GRAPHICS

- Intel® GMA 3150
- Supports 2 independent displays
- VGA display resolution up to 2048x1536 @ 60Hz
- DVI display resolution up to 1366x768 @ 60Hz
- Display outputs: 1 VGA and 1 DVI (DVI-D signal)

STORAGE

- 2 2.5" SATA drive bays
 - SATA 2.0 port with data transfer rate up to 3Gb/s
 - Standard: 1 drive bay for 1 SATA drive
 - Option: 1 drive bay for 2 SATA drives (Available upon request. Please contact your sales representative for more information.)
- 1 CompactFlash socket
- Supports 1 mSATA module via the Mini PCIe socket

ETHERNET

- 2 Realtek® RTL8111DL Gigabit Ethernet controllers
- 3 Intel® WG82574L PCI Express Gigabit Ethernet controllers (EC220-LR4G65)

AUDIO

- Realtek® ALC262 High Definition Audio
- 2 watt, 4Ω power amplifier

EXPANSION

- EC220 series
 - 2 PCI slots
 - 1 Mini PCIe slot
- EC221 series
 - 1 PCIe x1 slot
 - 1 PCI slot
 - 1 Mini PCIe slot

POWER

- Power input voltage: 19-24V DC (Standard Voltage)
- Power input voltage: 9-36V DC (Wide Voltage)

ENVIRONMENT

- Temperature
 - Operating: 0°C ~ 50°C (Standard Temperature)
 - Operating: -20°C ~ 70°C (Wide Temperature)
 - Storage: -20°C ~ 70°C
- Operating Vibration
 - MIL-STD-810F 514-5C-2 (HDD)
- Operating Shock
 - Half sine wave 15G, 11ms, 3 shock per axis

CONSTRUCTION

- Aluminum + SECC

MOUNTING

- Wall/VESA mount

DIMENSIONS

- 275mm x 110mm x 211mm (W x H x D)

WEIGHT

- 3.6 kg

OS SUPPORT

- Windows 7 Embedded, Windows 7, Windows XP SP3, Windows XP Embedded, Linux

OTHER FEATURES

- Watchdog Timer function

CERTIFICATION

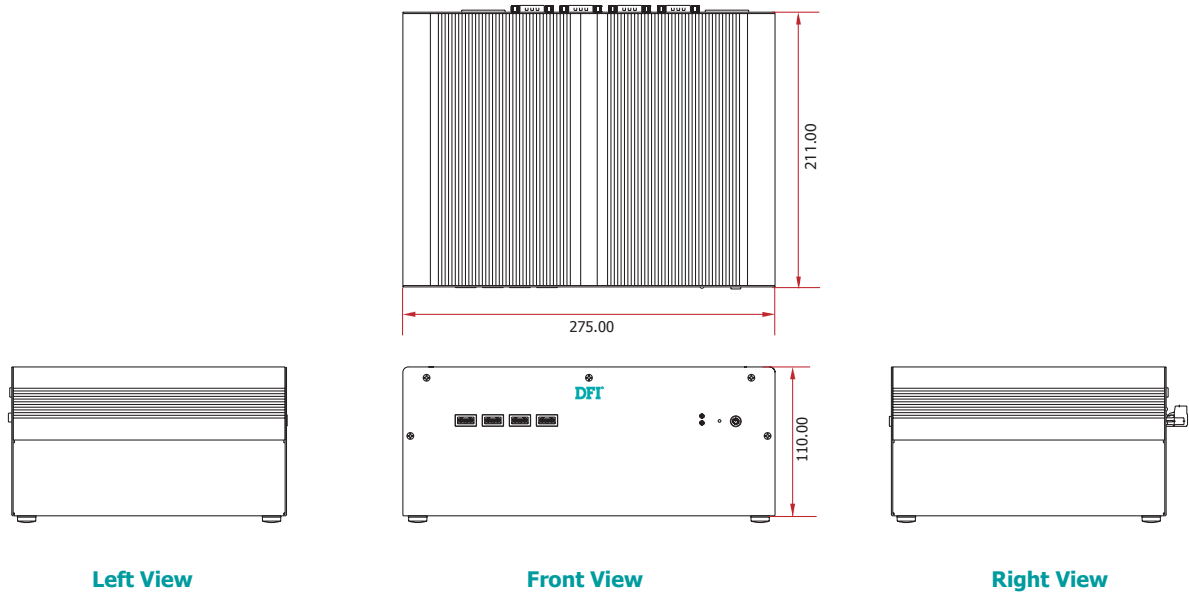
- CE
- FCC Class A
- UL
- RoHS

► System Models

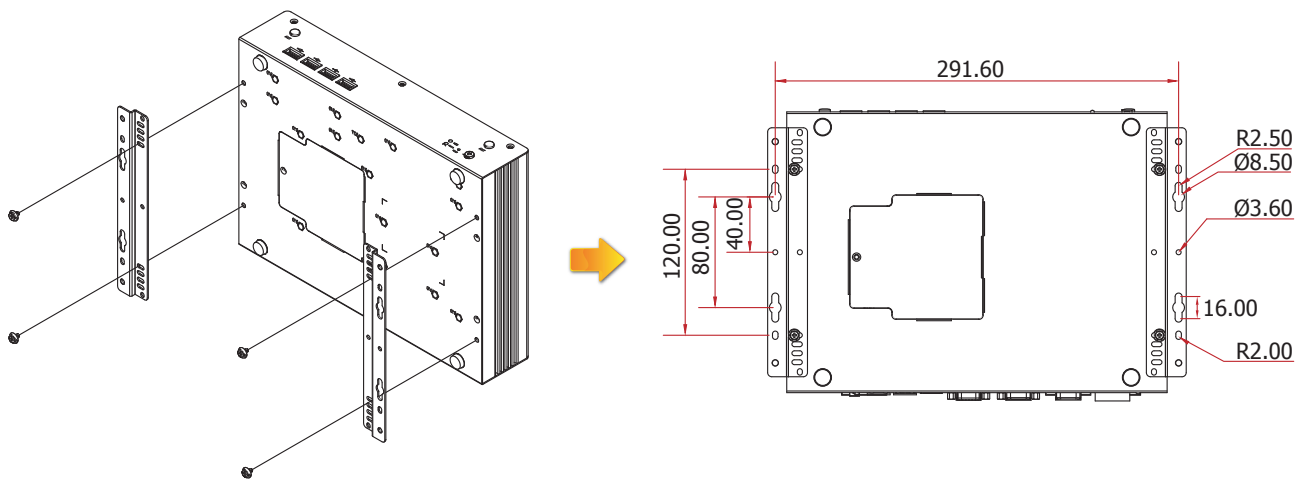
Rear I/O Ports				
Wide Voltage/ Temp	EC220/EC221-LRT6881	-	-	-
Standard Voltage/ Temp	-	EC220-LR6G60	EC220-LRA060	EC220-LR4G65
DC-in power jack: 3-pole terminal block	1	1	1	1
Speaker-out: 2W 3.5mm audio jack	1	1	1	1
VGA: DB-15 D-sub	1	1	1	1
DVI (DVI-D signal)	1	0	0	0
LAN: RJ45	2	2	2	5
COM: DB-9 D-Sub	6	6	4	4
COM: 9-pole terminal block	0	0	0	0
COM: 5-pole terminal block	0	0	6	0
USB 2.0 Type A	4	2	2	2
GPIO: 9-pole terminal block	8-bit	16-bit	0	16-bit
Reset button	1	1	1	1
Power LED	1	1	1	1
HDD LED	1	1	1	1
Alert LED	1	1	1	1
Front I/O Ports				
USB 2.0 Type A	4	4	4	4
Power button with indicator	1	1	1	1
Reset button	1	1	1	1
HDD LED	1	1	1	1
Alert LED	1	1	1	1
Wi-Fi module antenna hole	2	2	2	2

EC220/EC221 Series

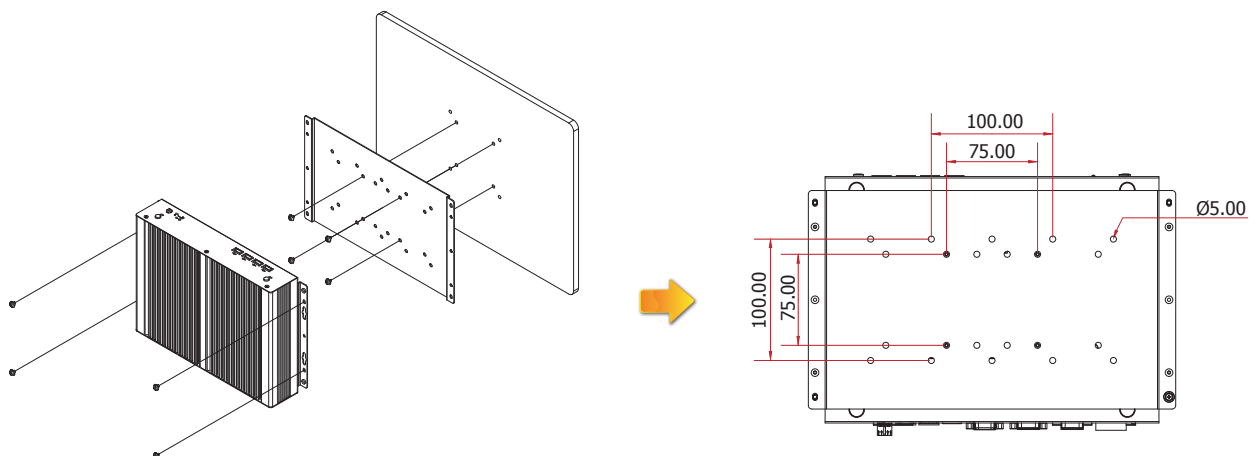
Dimensions



Wall Mounting



VESA Mounting



EC220/EC221 Series

► Ordering Information

Model Name	Part Number	Description
EC220-LR6G60	750-EC2200-220G	Fanless, D525, 2 LAN, 1 VGA, 6 COM, 16-bit GPIO, 6 USB, 2 PCI, RoHS
EC220-LRA060	750-EC2200-420G	Fanless, D525, 2 LAN, 1 VGA, 10 COM, 6 USB, 2 PCI, RoHS
EC220-LR4G65	750-EC2200-A00G	Fanless, D525, 5 LAN, 1 VGA, 4 COM, 6 USB, 2 PCI, 16-bit GPIO, RoHS
EC220-LRT6881	750-EC2200-605G	With wide temperature, Fanless, D525, 2 LAN, 1 VGA, 1 DVI, 6 COM, 8-bit GPIO, 8 USB, 2 PCI, RoHS
EC221-LRT6881	750-EC2210-606G	With wide temperature, Fanless, D525, 2 LAN, 1 VGA, 1 DVI, 6 COM, 8-bit GPIO, 8 USB, 1 PCI, 1 PCIe x1, RoHS

► Optional Items

Optional Items	Part Number	Description
Memory	785-RSOD31G	SODIMM, DDR3, 1GB, RoHS
	785-RSOD32G	SODIMM, DDR3, 2GB, RoHS
	785-RSOD34G	SODIMM, DDR3, 4GB, RoHS
HDD	785-H25320G	2.5" SATA HDD, 320GB, RoHS
	785-H25500G	2.5" SATA HDD, 500GB, RoHS
	785-S251TBG	2.5" SATA SSD, 1TB MLC, RoHS
	785-S25512G	2.5" SATA SSD, 512GB MLC, RoHS
	785-S25256G	2.5" SATA SSD, 256GB MLC, RoHS
	785-S25128G	2.5" SATA SSD, 128GB MLC, RoHS
	785-S25064G	2.5" SATA SSD, 64GB MLC, RoHS
	785-S25032G	2.5" SATA SSD, 32GB MLC, RoHS
CF	785-CF01G	CF CARD, 1G Industrial Grade SLC
	785-CF02G	CF Card, 2G, Industrial Grade SLC
	785-CF04G	CF Card, 4G, Industrial Grade SLC
	785-CF08G	CF Card, 8G, Industrial Grade SLC
Power Cord	785-PWRD	Power cord, Standards (USA/EUR/CH), 1.8m, RoHS
Wall Mount	785-EC3WMK	Wall Mount Kit
VESA Mount	785-EC2VAK	VESA Mount Kit

► Packing List

• 1 EC220/EC221 system unit
• 1 HDD drive bay kit
- 2 Brackets
- 1 SATA data/power cable
- 4 Bracket screws
- 4 HDD screws
• Terminal blocks
• 1 60W power adapter
• 1 Quick Installation Guide
• 1 CD disk includes:
- Drivers / Manual