



## Features

- Micro ATX Form Factor
- Accept Avalue and Other COM Express Type 2 Compatible CPU Modules
- VGA/ LVDS/ Audio Interface
- 1 CF, 1 PCI, 2 PCIe1, 1 PCIe16
- 4 SATA, 2 COM, 8 USB, 8-bit GPIO, Express Card/ 54mm
- Type 2 Pin-out

## Specifications

### System

• <b>Form Factor</b>	Micro-ATX
• <b>I/O Chip</b>	Winbond W83627HG-AW
• <b>Watchdog Timer</b>	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
• <b>SSD</b>	One CompactFlash Type I/II Socket
• <b>Expansion</b>	1 x PCI, 2 x PCIe1, 1 x PCIe16, Express Card (54mm)

### I/O

• <b>MIO</b>	1 x EIDE, 4 x SATA, 1 x LPT, 1 x FDD, 1 x RS-232, 1 x RS-232/ 422/ 485, 1 x KB, 1 x Mouse
• <b>IrDA Connector</b>	5 x 1 Header, Pitch 2.54mm
• <b>USB Connector</b>	8 x USB 2.0
• <b>DIO</b>	8-bit GPIO

### Audio

• <b>Audio Codec</b>	Realtek ALC883 Supports 7.1-CH Audio
• <b>Audio Interface</b>	Line-in, Mic-in, Line-out, CD Audio-in

### Connectors

• <b>External Connector</b>	1 x Mouse, 1 x KB, 1 x LPT, 1 x COM, 1 x VGA, 4 x USB, 1 x Audio Jack (6-Ports)
• <b>LVDS Connector</b>	One HIROSE DF13-40DP-1.25V
• <b>Power Connector</b>	One ATX 2 (12 x 2-pin), One Aux 1 (2 x 2-pin 12V) Power Connectors

### Mechanical & Environmental

• <b>Power Type</b>	ATX
• <b>Operating Temperature</b>	0 ~ 60°C (32 ~ 140°F)
• <b>Storage Temperature</b>	-40 ~ 75°C (-40 ~ 167°F)
• <b>Operating Humidity</b>	0%~90% Relative Humidity, Non-condensing
• <b>Size (L x W)</b>	243.84mm x 243.84mm
• <b>Weight</b>	1.10lbs (0.5Kg)

## Supported COM Express CPU Modules

- **ESM-CDV**  
Intel® Atom™ D2550 COM Express Module with Intel® NM10 Chipset
- **ESM-QM57**  
Intel® Core™ i7-620LE/ 620UE/ Celeron® M P4505 COM Express Module with Intel® QM57 Chipset
- **ESM-GM45**  
Intel® Core™ 2 Duo/ Celeron® CPU COM Express Module with Intel® GM45 + ICH9-M Chipset
- **ESM-945GSE**  
Intel® Atom™ N270 COM Express Module with Intel® 945GSE + ICH7-M Chipset
- **ESM-945GME**  
Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M COM Express Module with Intel® 945GME + ICH7-M Chipset

## Ordering Information

- **EEV-EX13**  
Micro ATX COM Express Carrier Board
- **ACC-CF-xx**  
CompactFlash Card Series (xx = Capacity, Capacity Option: 128, 256, 512MB, 1, 2, 4, 8GB)

**1**  
Embedded System

**2**  
Qseven Module

**3**  
ETX/XTX COM Express

**4**  
3.5" SBC

**5**  
EPIC

**6**  
5.25" SBC

**7**  
ATX

**8**  
Micro ATX

**9**  
Mini ITX

**10**  
Nano ITX

**11**  
ACP

**12**  
Rack Mount System

**13**  
Mini ITX System

**14**  
Peripherals

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