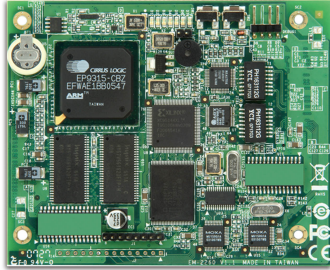


# EM-2260 Series

*Arm-based industrial computer-on-module with 4 serial ports, 2 LAN ports, 8 DI/DO, and 1 VGA port*



## Features and Benefits

- Cirrus Logic EP9315 Arm9 CPU, 200 MHz
- 128 MB RAM onboard, 32 MB flash disk
- Graphical user interface for external VGA output connection
- 2 kV optically isolated RS-232/422/485 serial ports
- Dual 10/100 Mbps Ethernet ports for network redundancy
- 8 DI and 8 DO channels
- Supports CompactFlash and USB 2.0 hosts
- Ready-to-run WinCE 6.0 platform
- Full-function development kit for quick evaluation and application development

## Certifications



## Introduction

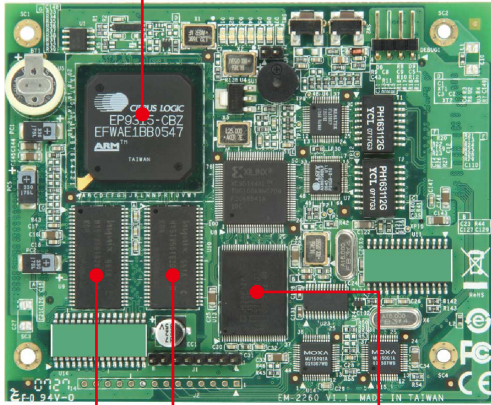
The EM-2260 embedded module features 4 RS-232/422/485 serial ports, dual Ethernet ports, and an Enhanced Integrated Drive Electronic (EIDE) interface for designing an external storage connection, such as a CompactFlash socket or USB port signals. The module has a compact design that is easily integrated with a variety of industrial applications, including gas stations, vending machines, and ticketing machines, and offers a powerful serial communication capability for better system integration. Programmers will find the preinstalled, ready-to-run Windows CE 6.0 platform and full-function development kit a great benefit when developing software and building reliable communication bases for industrial automation applications.

The EM-2260 embedded module uses the Cirrus Logic EP9315 Arm9, 32-bit, 200 MHz RISC CPU. This powerful computing engine supports several useful communication functions, but will not generate a lot of heat. The built-in 32 MB NOR Flash ROM and 128 MB SDRAM give you enough memory to run your application software directly on the EM-2260. With its built-in VGA output interface, the EM-2260 is suitable for use with SCADA systems in industrial applications, such as manufacturing automation, production line process monitoring, and mining automation, that require VGA and HMI features.

The EM-2260 Development Kit provides users with a handy tool for first-time evaluation to test the functionality of the embedded core module. It has several peripherals built-in, including RS-232/422/485 ports and digital input and output, making it suitable for developing a variety of industrial applications.

## Appearance

Cirrus Logic EP9315 ARM9 CPU

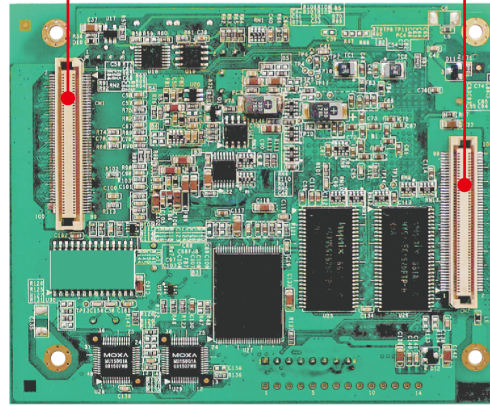


Onboard 128 MB RAM

Onboard 32 MB Flash

CN1

CN2



## Specifications

### Computer

CPU	Cirrus EP9315 Arm9, 200 MHz
SDRAM	128 MB
Flash	NOR Flash, 32 MB
Pre-installed OS	EM-2260-LX: $\mu$ CLinux EM-2260-CE: Microsoft Windows CE 6.0

### Digital Inputs

Digital Input Channels	DIs x 8
Input Voltage	3.3 V, CMOS level

### Digital Outputs

Digital Output Channels	DOs x 8
Digital Output	3.3 V, CMOS level

### Ethernet Interface

Ethernet Ports	Auto-sensing 10/100 Mbps ports (RJ45 connector) x 2
Magnetic Isolation Protection	1.5 kV (built-in)

### Display

Resolution	1024 x 768
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### Serial Interface

Serial Ports	4 x RS-232/422/485
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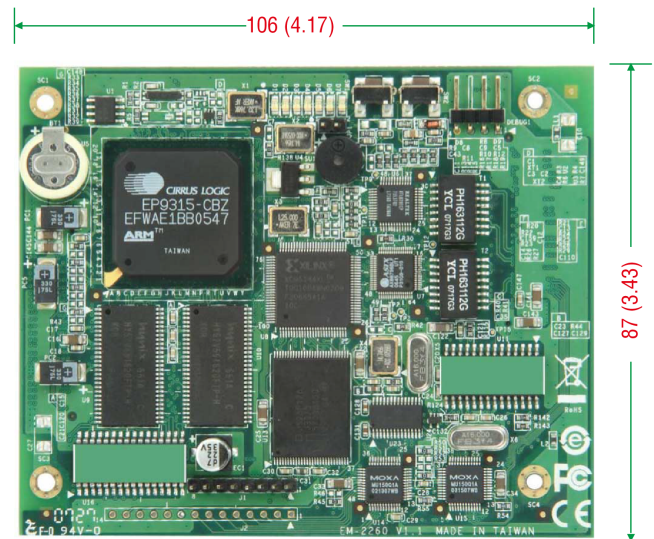
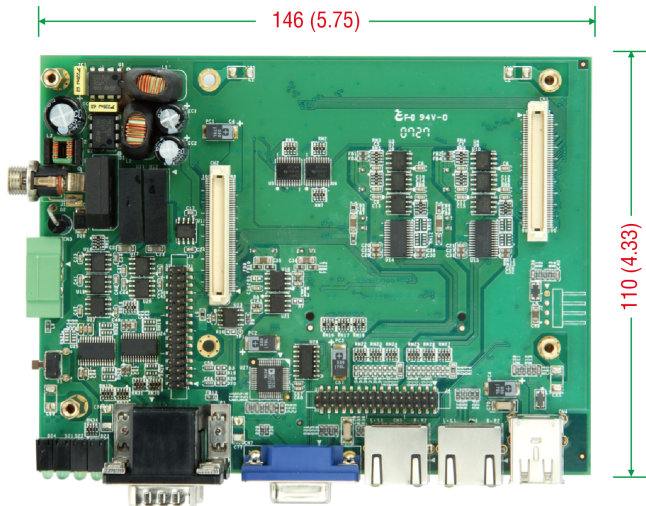
### Serial Signals

Console Port	1 x 4-pin header to DB9 console port
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark

Flow Control	RTS/CTS, XON/XOFF, ADDC® (automatic data direction control) for RS-485, RTS Toggle (RS-232 only)
Baudrate	50 bps to 921.6 kbps
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
<b>Power Parameters</b>	
Input Voltage	12 VDC
Input Current	480 mA @ 12 VAC
Power Consumption	5.8 W
<b>Reliability</b>	
Alert Tools	Built-in buzzer and RTC (real-time clock)
Automatic Reboot Trigger	Built-in WDT
<b>Physical Characteristics</b>	
Dimensions	106 x 87 mm (4.17 x 3.43 in)
Weight	70 g (0.16 lb)
<b>Environmental Limits</b>	
Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature (package included)	-20 to 80°C (-4 to -176°F)
<b>Standards and Certifications</b>	
EMC	EN 55032/24, EN 61000-3-2 Class A, EN 61000-3-3, CISPR 32, FCC Part 15B Class A
Green Product	RoHS, CRoHS, WEEE
<b>MTBF</b>	
Time	131,832 hrs
Standards	Telcordia (Bellcore) Standard
<b>Warranty</b>	
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

## Dimensions

Unit: mm (inch)



## Ordering Information

Model Name	Description
EM-2260-CE	Arm-based embedded core module with 4 serial ports, 8 x DI and 8 DO channels, 2 Ethernet ports, VGA, CompactFlash, USB, WinCE 6.0 OS
EM-2260-LX	Arm-based embedded core module with 4 serial ports, 8 x DI and 8 DO channels, 2 Ethernet ports, VGA, CompactFlash, USB, Linux OS

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