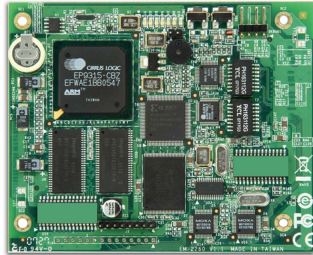


EM-2260 Series

Arm-based 200 MHz industrial computer-on-module with 2 LAN ports, 4 serial ports, 8 DIs, 8 DOs, 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



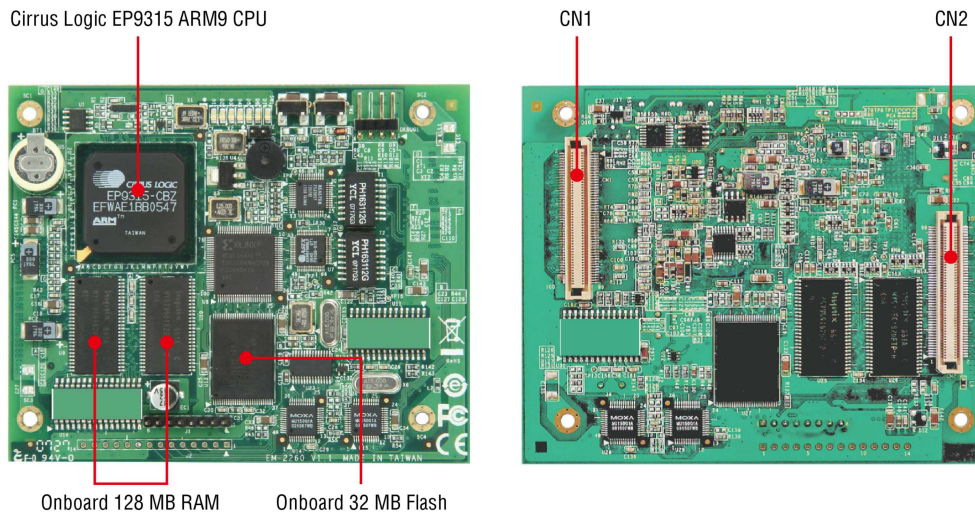
Introduction

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



Specifications

Computer

CPU	Cirrus EP9315 Arm9, 200 MHz
SDRAM	128 MB
Flash	NOR Flash, 32 MB
Pre-installed OS	EM-2260-LX: μ 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
------------	------------

Serial Interface

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

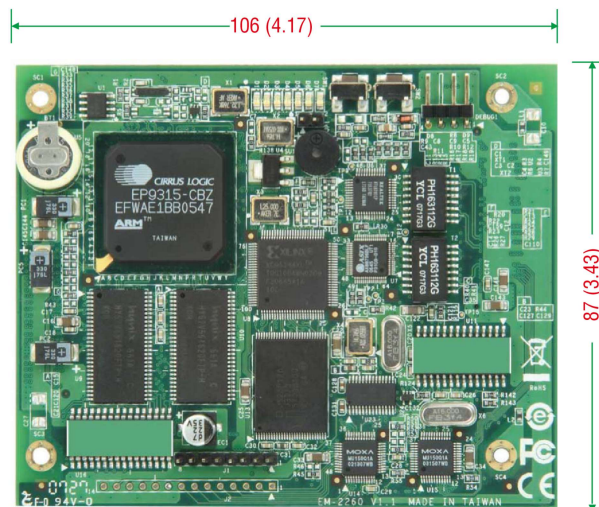
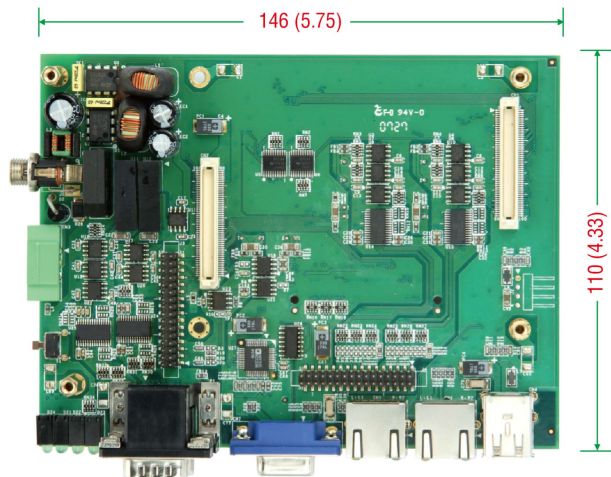
Serial Signals

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
Power Parameters	
Input Voltage	12 VDC
Input Current	480 mA @ 12 VAC
Power Consumption	5.8 W
Reliability	
Alert Tools	Built-in buzzer and RTC (real-time clock)
Automatic Reboot Trigger	Built-in WDT
Physical Characteristics	
Dimensions	106 x 87 mm (4.17 x 3.43 in)
Weight	70 g (0.16 lb)
Environmental Limits	
Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature (package included)	-20 to 80°C (-4 to -176°F)
Standards and Certifications	
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
MTBF	
Time	131,832 hrs
Standards	Telcordia (Bellcore) Standard
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty

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

© Moxa Inc. All rights reserved. Updated Jan 22, 2020.

This document and any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Moxa Inc. Product specifications subject to change without notice. Visit our website for the most up-to-date product information.