CA-114 Series

4-port RS-232/422/485 PC/104 modules



Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- On-chip hardware and software flow control
- IRQ settings, I/O settings, and serial interface are jumper and DIP switch selectable
- Onboard Tx and Rx LED indicators for each port
- Supports Windows CE 5.0/6.0 and Windows XP Embedded operating systems
- Wide-temperature model available for -40 to 85°C environments

Certifications

CE F©

Introduction

The CA-114 PC/104 modules are reliable, high-performance, multiport serial communication solutions that have 4 RS-232/422/485 ports, and can be used with PC/104 CPU boards that accept the PC/104 expansion interface. Optional DB9 and DB25 connection cables are available for connecting to serial devices, and versatile driver support makes the modules suitable for a wide range of applications.

Specifications

Serial Interface		
Comm. Controller	16C550C or compatible x 4	
Bus	PC/104 bus	
Connector	40-pin box header	
DIP Switches	I/O base address, Interrupt vector, Serial interface	
IRQ	3, 4, 5, 6, 7, 9, 10, 11, 12, 15 (shared for all ports)	
FIFO	64 bytes	
Max. No. of Boards per PC	8	
No. of Ports	4	
Serial Standards	RS-232, RS-422, RS-485	
Baudrate	50 bps to 921.6 kbps	
Data Bits	5, 6, 7, 8	
Stop Bits	1, 1.5, 2	
Parity	None, Even, Odd, Space, Mark	
Flow Control	None, RTS/CTS, XON/XOFF	



Serial Signals			
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		
RS-485-2w	Data+, Data-, GND		
Serial Software Features			
Windows Drivers	DOS, Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded		
Linux Drivers	Linux kernel 2.4.x, Linux kernel 2.6.x		
Power Parameters			
Input Current	305 mA @ 5 VDC		
Input Voltage	5 VDC		
Physical Characteristics			
Dimensions	90 x 96 mm (3.54 x 3.78 in)		
LED Interface			
LED Indicators	Built-in Tx, Rx LEDs for each port		
Environmental Limits			
Operating Temperature	CA-114: 0 to 55°C (32 to 131°F) CA-114-T: -40 to 85°C (-40 to 185°F)		
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)		
Ambient Relative Humidity	5 to 95% (non-condensing)		
Standards and Certifications			
EMC	EN 55032/24		
EMI	CISPR 32, FCC Part 15B Class A		
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 0.5 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF		
Environmental Testing	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-3 IEC 60068-2-14		
Vibration	IEC 60068-2-6		
Declaration			
Green Product	RoHS, CRoHS, WEEE		
MTBF			
Time	630,997 hrs		
Standards	Telcordia (Bellcore), GB		



Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x CA-114 Series PC/104 module
Documentation	1 x quick installation guide 1 x warranty card

Ordering Information

Model Name	Serial Bus	Serial Standards	No. of Serial Ports	Operating Temp.
CA-114	PC/104	RS-232/422/485	4	0 to 55°C
CA-114-T	PC/104	RS-232/422/485	4	-40 to 85°C

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