CA-132/132I Series

2-port RS-422/485 PC/104 modules with optional 2 kV isolation



Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- · On-chip software flow control
- · Onboard Tx and Rx LED indicators for each port
- Supports RS-485 ADDC® (Automatic Data Direction Control)
- Supports Windows CE 5.0/6.0 and Windows XP Embedded operating systems
- Wide-temperature models available for -40 to 85°C environments

Certifications



Introduction

The CA-132/132I PC/104 modules are reliable, high-performance, multiport serial communication solutions that have 2 RS-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 2		
Bus	PC/104 bus		
Connector	20-pin box header		
DIP Switches	I/O base address, Interrupt vector		
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	2		
Serial Standards	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, XON/XOFF		
Isolation	CA-132I/132I-T: 2 kV		

Serial Signals				
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 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded			
Linux Drivers	Linux kernel 2.4.x, Linux kernel 2.6.x			
UNIX Drivers	FreeBSD 4.x, QNX 4, SCO UNIX, OpenServer			
Power Parameters				
Input Current	CA-132 Series: 155 mA @ 5 VDC CA-132I Series: 190 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	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -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			
Safety	EN 60950-1, UL 60950-1			
Vibration	IEC 60068-2-6			
Declaration				
Green Product	RoHS, CRoHS, WEEE			



MTBF

Time	536,288 hrs			
Standards	Telcordia (Bellcore), GB			
Warranty				
Warranty Period	5 years			
Details	See www.moxa.com/warranty			
Package Contents				
Device	1 x CA-132/132l Series PC/104 module			
Documentation	1 x document and software CD 1 x quick installation guide 1 x warranty card			

Ordering Information

Model Name	Serial Bus	Serial Standards	Serial Isolation Protection	Operating Temp.
CA-132	PC/104	RS-422/485	-	0 to 55°C
CA-132I	PC/104	RS-422/485	2 kV	0 to 55°C
CA-132-T	PC/104	RS-422/485	-	-40 to 85°C
CA-132I-T	PC/104	RS-422/485	2 kV	-40 to 85°C

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