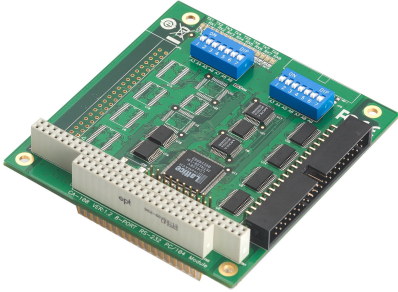


CA-104 Series

4-port RS-232 PC/104 modules



Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- On-chip software flow control
- IRQ and I/O settings 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



Introduction

The CA-104 PC/104 modules are reliable, high-performance, multiport serial communication solutions that have 4 RS-232 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
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
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
--------	--

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

Power Parameters

Input Current	210 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-104: 0 to 55°C (32 to 131°F) CA-104-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
Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6

Declaration

Green Product	RoHS, CRoHS, WEEE
---------------	-------------------

MTBF

Time	897,459 hrs
Standards	Telcordia (Bellcore), GB

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x CA-104 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 Standards	No. of Serial Ports	Operating Temp.
CA-104	RS-232	4	0 to 55°C
CA-104-T	RS-232	4	-40 to 85°C

Accessories (sold separately)

Cables

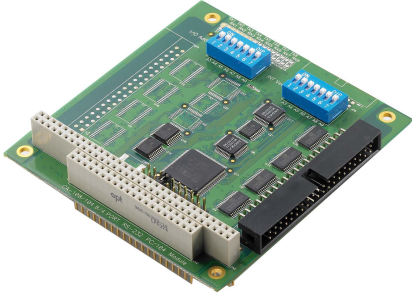
CBL-F40M25x4-50	F40 to 4 x DB25 male cable, 50 cm
CBL-F40M9x4-50	F40 to 4 x DB9 male cable, 50 cm

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.

CA-108 Series

8-port RS-232 PC/104 modules



Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- On-chip hardware and software flow control
- IRQ and I/O settings 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



Introduction

The CA-108 PC/104 modules are reliable, high-performance, multiport serial communication solutions that have 8 RS-232 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
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	8
Serial Standards	RS-232
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
--------	--

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

Power Parameters

Input Current	210 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-108: 0 to 55°C (32 to 131°F) CA-108-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 IEC 61000-4-11 DIPs
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	897,459 hrs
Standards	Telcordia (Bellcore), GB

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x CA-108 Series PC/104 module
Documentation	1 x document and software CD 1 x quick installation guide 1 x warranty card

Ordering Information

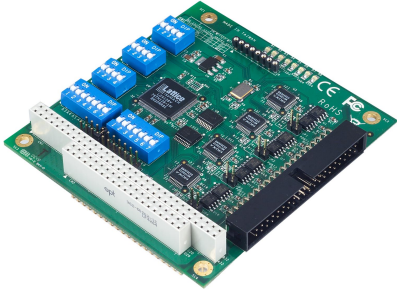
Model Name	Serial Bus	Serial Standards	No. of Serial Ports	Operating Temp.
CA-108	PC/104	RS-232	8	0 to 55°C
CA-108-T	PC/104	RS-232	8	-40 to 85°C

© Moxa Inc. All rights reserved. Updated Jul 15, 2019.

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.

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



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 (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
Safety	EN 60950-1, UL 60950-1
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 document and software CD 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

Accessories (sold separately)

Cables

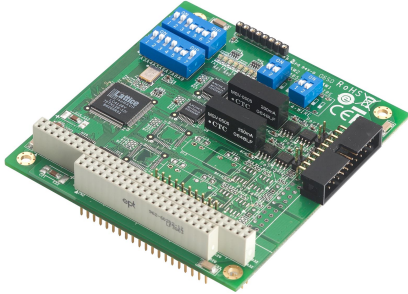
CBL-F40M25x4-50	F40 to 4 x DB25 male cable, 50 cm
CBL-F40M9x4-50	F40 to 4 x DB9 male cable, 50 cm

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.

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, multipoint 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-132/132I 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

Accessories (sold separately)

Cables

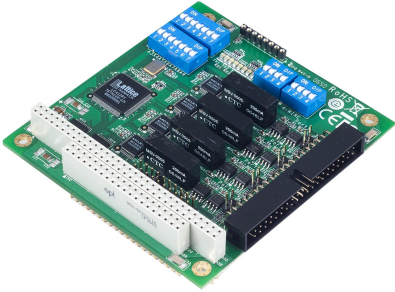
CBL-F20M25x2-50	F20 to 2 x DB25 male cable, 50 cm
CBL-F20M9x2-50	F20 to 2 x DB9 male cable, 50 cm

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.

CA-134I Series

4-port RS-422/485 PC/104 modules with 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 Windows CE 5.0/6.0 and Windows XP Embedded operating systems
- Wide-temperature model available for -40 to 85°C environments

Certifications



Introduction

The CA-134I PC/104 modules are reliable, high-performance, multipoint serial communication solutions that have 4 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 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-422, RS-485
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	None, XON/XOFF
Isolation	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

Power Parameters

Input Current	220 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-134I: 0 to 55°C (32 to 131°F) CA-134I-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

Declaration

Green Product	RoHS, CRoHS, WEEE
---------------	-------------------

Standards and Certifications

Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6

MTBF

Time	339,822 hrs
Standards	Telcordia (Bellcore), GB

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x CA-134I 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	No. of Serial Ports	Serial Isolation Protection	Operating Temp.
CA-134I	PC/104	RS-422/485	4	2 kV	0 to 55°C
CA-134I-T	PC/104	RS-422/485	4	2 kV	-40 to 85°C

Accessories (sold separately)

Cables

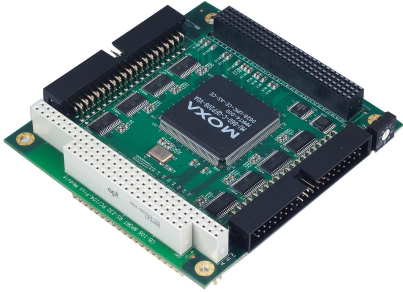
CBL-F40M25x4-50	F40 to 4 x DB25 male cable, 50 cm
CBL-F40M9x4-50	F40 to 4 x DB9 male cable, 50 cm

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.

CB-108 Series

8-port RS-232 PC/104-Plus modules



Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- On-chip hardware and software flow control
- Onboard Tx and Rx LED indicators for each port
- Supports Windows, Windows CE 5.0/6.0, and Windows XP Embedded operating systems
- Wide-temperature model available for -40 to 85°C environments
- Easy maintenance with built-in LEDs and management software

Certifications



Introduction

The CB-108 PC/104-Plus modules come with 8 RS-232 ports, and can be used with PC/104-Plus CPU boards that accept the PC/104-Plus 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. The CB-108 modules can be used on the PC/104-Plus (PCI) bus, and provide a reliable, high-performance solution for multiport serial communication.

Specifications

Serial Interface

Comm. Controller	16C550C or compatible x 4
Bus	PC/104 plus bus
Connector	40-pin box header
DIP Switches	Serial interface
IRQ	Assigned by BIOS
I/O Address	Assigned by BIOS
FIFO	128 bytes
Max. No. of Boards per PC	8
No. of Ports	8
Serial Standards	RS-232
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
Power Parameters	
Input Current	153 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	CB-108: 0 to 55°C (32 to 131°F) CB-108-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
Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6
MTBF	
Time	403,631 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x CB-108 Series PC/104-Plus 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	No. of Serial Ports	Operating Temp.
CB-108	PC/104-Plus	RS-232	8	0 to 55°C
CB-108-T	PC/104-Plus	RS-232	8	-40 to 85°C

Accessories (sold separately)

Cables

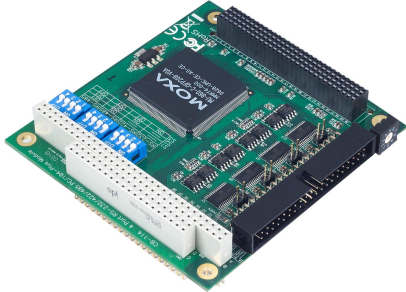
CBL-F40M25x4-50	F40 to 4 x DB25 male cable, 50 cm
CBL-F40M9x4-50	F40 to 4 x DB9 male cable, 50 cm

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.

CB-114 Series

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



Features and Benefits

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

Certifications



Introduction

The CB-114 PC/104-Plus modules come with 4 RS-232/422/485 ports, and can be used with PC/104-Plus CPU boards that accept the PC/104-Plus 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. The CB-114 modules can be used on the PC/104-Plus (PCI) bus, and provide a reliable, high-performance solution for multipoint serial communication.

Specifications

Serial Interface

Comm. Controller	16C550C or compatible x 4
Bus	PC/104 plus bus
Connector	40-pin box header
DIP Switches	Serial interface
IRQ	Assigned by BIOS
I/O Address	Assigned by BIOS
FIFO	128 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 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Drivers	Linux kernel 2.4.x, Linux kernel 2.6.x, Linux kernel 3.x
UNIX Drivers	QNX 6, Solaris 10, UnixWare 7

Power Parameters

Input Current	164 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	CB-114: 0 to 55°C (32 to 131°F) CB-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
Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6
Declaration	
Green Product	RoHS, CRoHS, WEEE

MTBF

Time	381,081 hrs
Standards	Telcordia (Bellcore), GB

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x CB-114 Series PC/104-Plus 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	No. of Serial Ports	Operating Temp.
CB-114	PC/104-Plus	RS-232/422/485	4	0 to 55°C
CB-114-T	PC/104-Plus	RS-232/422/485	4	-40 to 85°C

Accessories (sold separately)

Cables

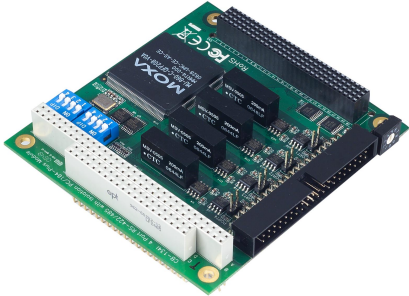
CBL-F40M25x4-50	F40 to 4 x DB25 male cable, 50 cm
CBL-F40M9x4-50	F40 to 4 x DB9 male cable, 50 cm

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.

CB-134I Series

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



Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- On-chip software flow control
- Serial interface is DIP switch selectable
- Onboard Tx and Rx LED indicators for each port
- Supports Windows XP/Vista/7, Windows CE 5.0/6.0, and Windows XP Embedded operating systems
- Wide-temperature model available for -40 to 85°C environments

Certifications



Introduction

The CB-134I PC/104-Plus modules come with 4 RS-422/485 ports, and can be used with PC/104-Plus CPU boards that accept the PC/104-Plus 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. The CB-134I modules can be used on the PC/104-Plus (PCI) bus, and provide a reliable, high-performance solution for multiport serial communication.

Specifications

Serial Interface

Comm. Controller	16C550C or compatible x 4
Bus	PC/104 plus bus
Connector	40-pin box header
DIP Switches	Serial interface
Max. No. of Boards per PC	8
IRQ	Assigned by BIOS
I/O Address	Assigned by BIOS
FIFO	128 bytes
No. of Ports	4
Serial Standards	RS-422, RS-485
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	None, XON/XOFF

Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, 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, Linux kernel 3.x
UNIX Drivers	QNX 6, Solaris 10, UnixWare 7
Power Parameters	
Input Current	153 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	CB-134I: 0 to 55°C (32 to 131°F) CB-134I-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, EN 61000-6-2/-6-4
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	403,631 hrs
Standards	Telcordia (Bellcore), GB

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x CB-134I Series PC/104-Plus 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	No. of Serial Ports	Serial Isolation Protection	Operating Temp.
CB-134I	PC/104-Plus	RS-422/485	4	2 kV	0 to 55°C
CB-134I-T	PC/104-Plus	RS-422/485	4	2 kV	-40 to 85°C

Accessories (sold separately)

Cables

CBL-F40M25x4-50	F40 to 4 x DB25 male cable, 50 cm
CBL-F40M9x4-50	F40 to 4 x DB9 male cable, 50 cm

© Moxa Inc. All rights reserved. Updated Nov 12, 2018.

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.