

200E-CC/200E-CCP

UNIVERSAL FIBER OPTIC CARD CAGE SYSTEM



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SAFETY INSTRUCTIONS AND COMPLIANCE DECLARATIONS

PLEASE OBSERVE THE FOLLOWING SAFETY
PRECAUTIONS AS OUR PRODUCTS CONTAIN

CLASS I LASER PRODUCTS

WARNING

Do not disconnect the fiber optic connector while the unit is powered up. Exposure to laser radiation is possible when the laser fiber optic connector is disconnected while the unit is powered up.

Although the fiber optic connectors in this product emit only Class 1 energy that is below the levels considered to be hazardous, one should never stare directly into a fiber optic connector or an unconnected fiber end unless one can be certain that no exposure to laser energy could occur.



This manual is intended for use by trained service personnel. The use of controls, making adjustments, or performing operations other than those specified may result in hazardous radiation exposure.

The following label or equivalent is located on the surface of laser products. This label indicates that the product is classified as a CLASS 1 LASER PRODUCT.



SURGE PROTECTION DEVICE RECOMMENDED

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1.0 PRODUCT DESCRIPTION

BCI's 200E Series card cage system provides a universal 19", 3 RU high, rack mount solution for most of BCI's card based product line. This enables designers a space saving and cost effective method for utilizing multiple BCI products in a dense packaging configuration.

BCI's system consists of a 18 slot universal chassis (200E-CC) (16 usable slots with a single power supply) and a power supply card (200E-CCP) that supplies 180 watts of total system power to the BCI card based units. Each 200E-CCP power supply requires 2 slots in the 200E-CC chassis for installation.

Redundant power applications can be satisfied by simply installing an additional 200E-CCP into the 200E-CC card chassis.

2.0 SETUP

2.1 Mounting

Before installing the units into your 19" rack, make sure there is enough space to pull and connect both the electrical and optical cables without stressing them beyond the manufacturer's limitations (also known as the bend radius minimum).

2.2 AC Power Connection Instructions

BCI's 200E Series card cage system provides 18 universal slots, however power supplies utilize two slots each. BCI's 200E Series card cage system also supports redundancy, so if required, a second power supply will require an additional two slots. The rest can be used for whatever configuration your application needs.

If not already supplied in place, determine which slot (either the first or the last) would better accommodate easy access for power. Slide the power supply card in by aligning the edges of the card with the card guides inside the card cage chassis. Slide the card in until it fully seats in, and the face of the card is flush with the chassis. Secure the card in place by pressing in the thumbscrews and tightening clockwise.

If not already supplied in place, install the additional I/O cards in the same fashion, filling up the remaining available slots. Blank panels are available (if not supplied) to cover empty slots. Cover blank slots to keep foreign objects out of the card cage and to maintain proper airflow.

Make sure the power switch is in the off position of the power supply (supplies) until the system has been fully integrated. (For transmitter and receiver site) insert one end of the supplied power chord (s) in the proper power cord connector just below the fan, and the other end in a power receptacle (s) of an appropriate circuit (s).

Refer to the individual user manuals to interface each I/O card in your system for the appropriate signals and terminals. When interfacing has been completed, and your system is ready to be powered up, use the power switch(s) under the power cord connector. If using a redundant system, either power supply is capable of powering the system, so either one can be enabled first.

2.3 AC Power Connection Guideline

Congratulations! You are now ready to power up the BCI 200E/200E-CCP and set up your network connection. In order to make sure that you have a proper installation, please observe the following:

1. Your AC jack has power.
2. Your electrical system has proper grounding (this ensures that your power supply does not suffer from voltage variations).
3. **Power Surge Protection. This is optional**, but highly recommended. A UPS system provides voltage regularity as well as prevents spikes from occurring, thus protecting your 200E/200E-CCP from sensitive voltage conditions.

The 200E/200E-CCP derives power from an internal power supply. This power supply is a 90-240 VAC, 50-60 Hz.

To provide power to the 200E/200E-CCP, simply connect the 200E/200E-CCP power cord, already provided with the units, and connect it to the wall jack. (You will find one power cord per unit). Once the power cord has been connected to the wall jack, connect the other end, turn the switch on and the unit should power up immediately.

If you have any problems or concerns, regarding the installation, make sure that you have taken the proper steps to ensure a proper power connection. Otherwise, feel free to contact us for any questions you may have.

3.0 OPERATION

After the installation procedure is completed, the units are ready for operation. To operate the BCI 200E-CC/200E-CCP units, simply apply power as indicated in the previous step.

4.0 MAINTENANCE AND TROUBLESHOOTING

4.1 Maintenance

There is no operator maintenance other than keeping the units clean. Filters for the fan often collect particles and need to be cleared for good air circulation.

A power indicator on the front indicates the system is powered up by either of the power supplies. LED's on the power supplies themselves indicate which (or both) are being used. All other indications on the I/O cards should be referenced in the individual manual for that I/O card.

4.2 Troubleshooting

If the BCI 200E-CC/200E-CCP units do not operate properly after installation, check for: possible cable breaks, loose connections, and incorrect cable connections. If a problem exists on the fiber link, please check your fiber connectors for improperly cleaned fiber cables and connectors. If problems persist that may be fiber related, contact BCI at 1-800-214-0222 for further assistance.

For electrical problems, perform the following troubleshooting procedures:

- 1. If the POWER indicator is OFF, check for the following:**
 - a. The line cord is plugged into the unit and your outlet has power.
 - b. The 200E-CC/200E-CCP unit is switched on.
 - c. Check for blown fuses (located in the power supply card). Unplug the power cord before attempting to change blown fuses.

5.0 SPECIFICATIONS

200E-CC Universal Card Cage

Dimension:	(H x W x D)
Card Cage	5.25" x 19.00" x 11.6"
One Slot Plug-in Card	5.25" x 0.93" x 11.6"
Total Slots Available	18

200E-CCP Card Cage Power Supply Module

Input Power	Auto Sense 90-240VAC, 47-64Hz
AC Connector	IEC EN60320/C13 (3 wire)
Output Power	+12VDC @ 15 Amp
LED Indicator	Power
No. of Slots Required	2
Fuse	5.0 Amp, 250V, 5 x 20mm
Power Redundancy	Yes (through second power supply module)
Operating Temperature	0 to +50 Degree C
Humidity	0 to 95% RH, Non-condensing

6.0 SERVICE PROCEDURE

6.1 Replacement Policy

Standard products found defective on arrival (DOA) will be replaced, based on availability. Please call Customer Service at **800-214-0222** for information.

6.2 Return/Repair Service

The BCI 200E-CC/200E-CCP System contains no user serviceable components. If you have a problem with your unit, please contact the Customer Service Department. To facilitate our return/repair processing please contact Broadata Communications, Inc. to obtain a Return Material Authorization (RMA). Please include the following information:

- Product model number
- Serial Number
- Complete description of problem
- Hardware installation description

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7.0 LIMITED WARRANTY

Broadata Communications, Inc. (BCI) warrants, for a period of one year from date of shipment, each product sold shall be free from defects in material and workmanship. BCI will correct, either by repair, or at BCI's election, by replacement, any said products that in our sole discretion prove to be defective and are returned to the manufacturing location within 30 days after such defect is ascertained. All warranties are limited to defects arising under normal use and do not include malfunctions or failure resulting from misuse, abuse, neglect, alterations, electrical power problems, usage not in accordance with product instructions, improper installation, or damage determined by BCI to have been caused by the Buyer or repair made by a third party. Limited warranties granted on products are to the initial customer end-user and are not transferable. OUR LIABILITY UNDER THIS WARRANTY SHALL IN ANY CASE BE LIMITED TO THE INVOICE VALUE OF THE PRODUCT SOLD AND BCI SHALL NOT BE LIABLE TO ANYONE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM THE USE OF ITS PRODUCTS OR THE SALE THEREOF. We make NO WARRANTY AS TO THE MERCHANTABILITY OF ANY GOODS, OR THAT THEY ARE FIT FOR ANY PARTICULAR PURPOSE OR END APPLICATION NOR DO WE MAKE ANY WARRANTY, EXPRESSED OR IMPLIED OTHER THAN AS STATED ABOVE.

Notes

Notes

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