
**FIBERLINK
MCR-1000A
Multichannel Rack-Mountable
Card Cage Enclosure**

USER'S MANUAL



WORLD HEADQUARTERS
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P/N: 101981 REV. D

Introduction

The Fiberlink MCR-1000A is a 5 1/4 inch x 19 inch (3U high) EIA rack-mountable card cage enclosure that will accommodate up to 10 Fiberlink transmission system modules. Most standard transmitter, receiver or transceiver modules may be used and may be intermixed as desired.

Technical Specifications

Number of Positions	10
Operating Power	115 or 220/230 VAC 50/60 Hz,.
Maximum Total Load Current	3.3 amperes
Finish	Clear Anodized Aluminum
Operating Temperature Range	-34 to +74 Degrees C

Theory of Operation

The Fiberlink MCR-1000A card cage provides operating power to any “/MCR” compatible module plugged into it. The power provided is an unregulated AC voltage that can range from 14 to 16 volts, depending on the total load. The card-cage is set for operation from 115 VAC or 230 VAC by means of windings on a power transformer that are configured by a rear panel selector switch. This selector switch and a front-panel power switch are the only controls on the unit.

Installation and Operation of the MCR-1000A

1. Set the rear panel selector switch to 115 or 230 VAC as required.
2. Mount the MCR-1000A in a standard EIA 19 inch rack frame, allowing at least 1 to 2 inches of clearance from other equipment for proper ventilation.
3. Plug a suitable line cord into the rear IEC power connector of the unit.
4. Plug the desired “/MCR” module or adapter plate/module combination into any free slot in the MCR-1000A.
5. Make all optical and signal connections on the rear of the unit.
6. Turn on power by means of the front panel power switch. A built-in power indicator in the switch will illuminate signifying the presence of power.

Unless otherwise indicated, all information and specifications provided by the user's manuals for the specific modules to be used in the MCR-1000A apply.

Precautions

Because of the close proximity of modules plugged into the MCR-1000A card cage, be sure to allow enough clearance on all sides to ensure proper ventilation. Failure to do so can result in excessive heating and damage to individual modules.

In situations where several MCR-1000A card cages are to be mounted above each other in a rack frame, it may also be necessary to employ an external blower or fan to properly cool the units. This may also be necessary when the MCR-1000A is mounted in a closed, air-tight cabinet.

Note: The replacement fuse for the MCR-1000A is an IEC 5 x 20 mm 1.25 ampere “time-lag” type for 115 VAC operation or an IEC 5 x 20 mm 800 ma. “time-lag” type for 220/230 VAC operation. Suitable choices are the Littlefuse 2181.25 (1.25 ampere) or 218.800 (800 milliamperes).

This fuse is located behind a small door which is part of the IEC power connector on the rear of the MCR-1000A.

WARRANTY

Communications Specialties warrants that for a period of three years after purchase by the Buyer, all FIBERLINK transmission systems will be free from defects in material and workmanship under normal use and service. A Return Material Authorization (RMA) number must be obtained from Communications Specialties before any equipment is returned by the Buyer. All material must be shipped to Communications Specialties at the expense and risk of the Buyer.

Communications Specialties' obligation under this warranty will be limited, at its option, to either the repair or replacement of defective units, including free materials and labor. In no event shall Communications Specialties be responsible for any incidental or consequential damages or loss of profits or goodwill.

Communications Specialties shall not be obligated to replace or repair equipment that has been damaged by fire, war, acts of God, or similar causes, or equipment that has been serviced by unauthorized personnel, altered, improperly installed or abused.

RMA numbers and repairs can be obtained from:

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