






IFS MCR-R15 Media Converter Rack User Manual

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Manufacturer	UTC Fire & Security Americas Corporation, Inc. 2955 Red Hill Avenue, Costa Mesa, CA 92626-5923, USA
Version	This document applies to IFS MCR-R15 Media Converter Rack version 1.0.
Certification	   N4131
FCC compliance	<p>Class A: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.</p>
ACMA compliance	<p>Notice! This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.</p>
European Union directives	<p>2004/108/EC (EMC directive): Hereby, UTC Fire & Security declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC</p>



2002/96/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

**Contact
information**

www.utcfireandsecurity.com or
www.interlogix.com

Customer support

www.interlogix.com/customer-support

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Package Contents

Before installing the IFS MCR-R15 Media Converter Rack verify that the package contains the following parts:

- MCR-R15 Media Converter Rack x1
- MCR-RPS x1 (factory installed)
- User Manual x1
- Power Cord x1
- Rack Mount Accessory Kit x1
- Rubber Feet x 4

If any of the items in the package are damaged or missing, please contact your distributor or IFS sales rep. If possible, retain the original carton and packaging material in case of need to return the product for repair/replacement.

Product Features

Hardware

- High quality 19" rack-mountable chassis
- Plug-n-play installation
- Supports up to fifteen hot-swappable MCR series media converters
- Two built-in fans for hardware cooling
- Simple converter maintenance, management, and diagnostics

Power System

- Two power supply bays in the rear panel for primary and redundant 100~240VAC power
- Bay power isolation to ensure each bay is electrically isolated from each other
- Power protection against over voltage, over current and short circuit.

Compatibility

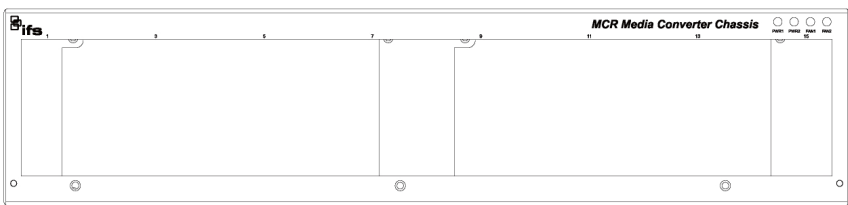
At the time of printing, the MCR Media Converter Rack supports the following MCR Series modules:

- MCR200-1T/1CX - Fast Ethernet to Coax
- MCR205-1T/1S - Fast Ethernet to SFP
- MCR300-1T/1S - GigE Ethernet to SFP

Additional modules may become available. Please contact your distributor or IFS sales rep.

Front Panel

Figure 1: Media Converter Rack Front Panel



LED Indicators

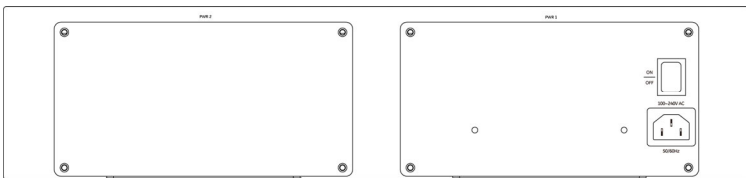
MCR-R15 LED indicators

Printing	LED Status	Description
PWR 1 (Green)	ON	The Rack is powered by the primary AC power source (MCR-RPS).
	OFF	The Rack is not powered or power failure.
PWR 2 (Green)	ON	The Rack is powered by AC redundant power source (MCR-RPS).
	OFF	The Rack is not powered or power failure.
FAN A / FAN B (Green)	ON	The fan is operating
	OFF	The fan is not powered or it is malfunctioning while the power is ON, please consult your local dealer to replace the FAN.

Rear Panel

Figure 2 shows the rear panel of the MCR-R15 with the two power bays. One for primary power and the other for an optional secondary power supply.

Figure 2: Rear Panel



Note: The MCR-R15 is shipped with one 100~240 VAC power supply module (MCR-RPS) installed. A second MCR-RPS power supply module may be purchased for redundant power operation.

Power Notice:

1. The MCR-R15 media converter rack provides power for up to 15 MCR Series media converters. To ensure network reliability and to reduce the possibility of data loss or network link loss, it is recommended that a UPS (Uninterrupted Power Supply) be installed as part of your installation.
2. For additional protection against unregulated voltage or current surges, you may also want to consider surge suppression as part of your installation.

Installing the MCR-R15 Rack

Desktop mount installation

- The mounting ears do not need to be installed for desktop installation.
- Place the four included rubber feet at the bottom corners of the media converter chassis to allow for proper air ventilation.
- Check to make sure the main power switch is set to the "OFF" position before connecting the AC power cord.

Rack mount installation for an EIA rack

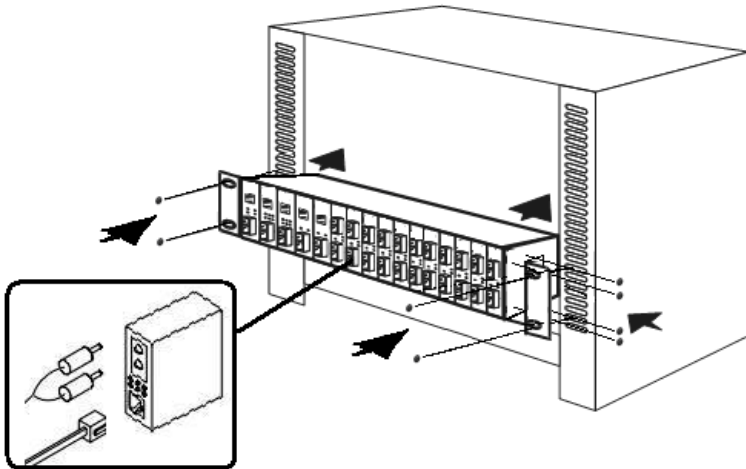
- Install the mounting ears to the each side of the media converter rack by using the four screws provided.
- Determine the position the media converter rack will be installed in the 19" EIA rack.

Note: It is important to allow at least 1U spacing below the chassis to allow for proper air ventilation generated by the built-in fans.

- Securely install the chassis to the rack using screws.

- Check to make sure the main power switch is set to the "OFF" position before connecting the AC power cord.

Figure 3: Installing the Media Rack in a 19" EIA Rack



Installing Modules into the MCR-R15

- Turn OFF the Converter Rack power.
- The MCR-R15 media converter rack is designed to only support the IFS MCR Series media converter modules. Ensure that you are installing only media converters within the IFS MCR Series product family.
- Insert the MCR Series media converter with the +5VDC power connection end first. The +5VDC power receptacle of the module should be near the bottom of the rack when installing.
- Carefully slide the media converter into the rack making sure the power connection is securely made.
- Push up the retaining bar to lock the converters.
- Ensure that there is no activity on the network.

- Connect the appropriate network cables to the media converter.
- Turn on the power to the rack. At least one set of Power and FAN LED indicators should glow green.

Specifications

Connectors		
AC Line-in	IEC Socket	
Back plane DC connector (one per slot)	2.5mm DC receptacle	
LED Indicators		
Power 1 (Green)	On/AC power	Off/not powered or power failure
Power 2 (Green)	On/AC power	Off/not powered or power failure
Fan A (Green)	On/fan functioning	Off/fan malfunction
Fan B (Green)	On/fan functioning	Off/fan malfunction
Electrical & Mechanical		
Input Power	100~240 VAC, 50-60Hz @ 3.3A	
Power Consumption	Unloaded: 10 watts / 34BTUs (with 1 Power Supply) Fully loaded: 88 watts / 301BTUs	
Output power (backplane)	+5 V DC $\overline{\text{---}}$ 1A	
Enclosure	Metal	
No. of slots	15	
Fans	2	
Dimensions (H x W x D) in, mm	17.3" x 7" x 4" (440 x 180 x 103mm) (W x D x H), 2.4U height	
Weight	9.47lbs / 4.30kg	
Environmental		
Operating Temperature	0° ~ 50° C	
Storage Temperature	-10° ~ 70° C	
Relative Humidity	0 ~ 90% (non-condensing)	
Standards Compliance		
FCC	FCC Part 15 Class A, CE	
EMI	EN 55022 CLASS A EN61000-3-2:2006 EN61000-3-3: 1995+1A:2001+A2:2005	
EMS	EN 55024:1998+A1:2001+A2:2003 IEC 61000-4-2:2001 IEC 61000-4-3:2008 IEC 61000-4-4:2004 IEC 61000-4-5:2005 IEC 61000-4-6:2008 IEC 61000-4-8:2001	
Reliability	MTBF > 50,000 hrs @ 25°C	

Contacting Technical Support

Contact technical support if you encounter any difficulties during this installation. Please make sure you have the requested diagnostic or log files ready before you contact us by phone or go to www.interlogix.com/customer-support.

Technical Support

Europe, Middle East and Africa

W Select *Contact Us* at www.utcssecurityproducts.eu

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