



IE-MediaChassis/1

Operation Manual



FCC Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B computing 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 the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

The use of non-shielded I/O cables may not guarantee compliance with FCC RFI limits. This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique publié par le ministère des Communications du Canada.

Warranty

IMC Networks warrants to the original end-user purchaser that this product, EXCLUSIVE OF SOFTWARE, shall be free from defects in materials and workmanship under normal and proper use in accordance with IMC Networks' instructions and directions for a period of six (6) years after the original date of purchase. This warranty is subject to the limitations set forth below.

At its option, IMC Networks will repair or replace at no charge the product which proves to be defective within such warranty period. This limited warranty shall not apply if the IMC Networks product has been damaged by unreasonable use, accident, negligence, service or modification by anyone other than an authorized IMC Networks Service Technician or by any other causes unrelated to defective materials or workmanship. Any replaced or repaired products or parts carry a ninety (90) day warranty or the remainder of the initial warranty period, whichever is longer.

To receive in-warranty service, the defective product must be received at IMC Networks no later than the end of the warranty period. The product must be accompanied by proof of purchase, satisfactory to IMC Networks, denoting product serial number and purchase date, a written description of the defect and a Return Merchandise Authorization (RMA) number issued by IMC Networks. No products will be accepted by IMC Networks which do not have an RMA number. For an RMA number, contact IMC Networks at PHONE: (800) 624-1070 (in the U.S and Canada) or (949) 465-3000 or FAX: (949) 465-3020. The end-user shall return the defective product to IMC Networks, freight, customs and handling charges prepaid. End-user agrees to accept all liability for loss of or damages to the returned product during shipment. IMC Networks shall repair or replace the returned product, at its option, and return the repaired or new product to the end-user, freight prepaid, via method to be determined by IMC Networks. IMC Networks shall not be liable for any costs of procurement of substitute goods, loss of profits, or any incidental, consequential, and/or special damages of any kind resulting from a breach of any applicable express or implied warranty, breach of any obligation arising from breach of warranty, or otherwise with respect to the manufacture and sale of any IMC Networks product, whether or not IMC Networks has been advised of the possibility of such loss or damage.

EXCEPT FOR THE EXPRESS WARRANTY SET FORTH ABOVE, IMC NETWORKS MAKES NO OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS IMC NETWORKS PRODUCT, INCLUDING WITHOUT LIMITATION ANY SOFTWARE ASSOCIATED OR INCLUDED. IMC NETWORKS SHALL DISREGARD AND NOT BE BOUND BY ANY REPRESENTATIONS OR WARRANTIES MADE BY ANY OTHER PERSON, INCLUDING EMPLOYEES, DISTRIBUTORS, RESELLERS OR DEALERS OF IMC NETWORKS, WHICH ARE

INCONSISTENT WITH THE WARRANTY SET FORTH ABOVE. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY LIMITED TO THE DURATION OF THE EXPRESS WARRANTY STATED ABOVE.

Every reasonable effort has been made to ensure that IMC Networks product manuals and promotional materials accurately describe IMC Networks product specifications and capabilities at the time of publication. However, because of ongoing improvements and updating of IMC Networks products, IMC Networks cannot guarantee the accuracy of printed materials after the date of publication and disclaims liability for changes, errors or omissions.

Table of Contents

FCC Radio Frequency Interference Statement	ii
Warranty.....	ii
About the IE-MediaChassis/1	1
Configuring and Installing Modules.....	1
Installing the IE-MediaChassis/1	1
Powering the IE-MediaChassis/1	2
DC Terminal Block Wiring Instructions.....	3
Cascading DC Power	4
DC Power Supply Precautions.....	5
Specifications	6
Electrostatic Discharge Precautions.....	7
Safety Certifications.....	8

About the IE-MediaChassis/1

The Industrial Ethernet IE-MediaChassis/1 is a compact and modular, single-slot table-top unit that hosts a variety of IMC Networks iMcV-Modules. The IE-MediaChassis/1 has two power options: a 4-terminal DC power block, and a country-specific external AC power adapter. In addition, IE-MediaChassis/1 also includes an extended voltage range; an extended operating temperature; and DIN clips for mounting the enclosure on a DIN rail. Deploy these standalone chassis at the customer premises (CPE) or each access point.

Configuring and Installing Modules

To install a module (any iMcV series module except those that are double- wide), slide the module into the chassis until the module is firmly seated in the backplane. Secure the module to the chassis by tightening the captive screw.

NOTE
<i>Please refer to the installation guide online for the module for configuration and operation information.</i>
<i>The power source in this chassis is not isolated, and cannot support positive reference ground systems typically used in Telco environments. The MediaChassis/2-DC and the iMediachassis/6-DC are suitable alternates.</i>

Installing the IE-MediaChassis/1

IE-MediaChassis/1 installs virtually anywhere: as a standalone, table-top device, on a DIN rail, or Wallmounted. As a table-top unit, install the IE-MediaChassis/1 by placing it on a flat surface. Make sure to leave adequate space on top of the unit to accommodate cooling. Attach the network cables between the module and other devices that will be interconnected, and then plug the unit into a reliable, filtered power source.

Wallmount Bracket Installation

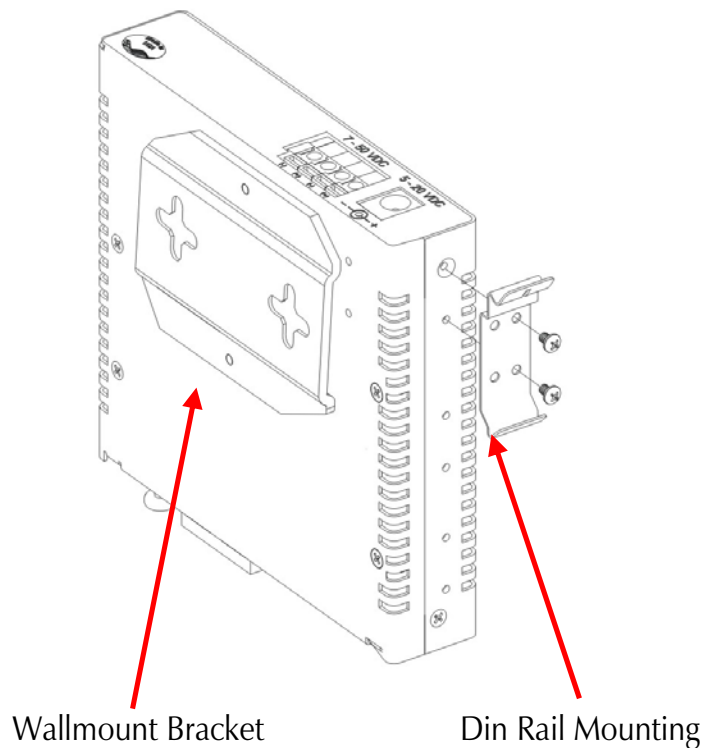
Wallmount Brackets, an optional accessory available through IMC Networks (Part number 895-39229) allow the IE-MediaChassis/1 to be Wallmounted. Refer to DIN Rail Mounting diagram for this mounting option.

DIN Rail Mounting

The IE-MediaChassis/1 can be mounted with two DIN Rail clips, a hardware option available through IMC Networks. The DIN Rail clips include screws, to allow the installation onto a DIN Rail. Install the screws into DIN Rail clips, which should be mounted perpendicular to the DIN Rail. Snap the converter onto the clips. To remove the converter from the DIN Rail, use a flat-head screwdriver into the slot to gently pry the converter from the rail.

NOTE

The DIN clips are designed for use on a DIN-35 rail.



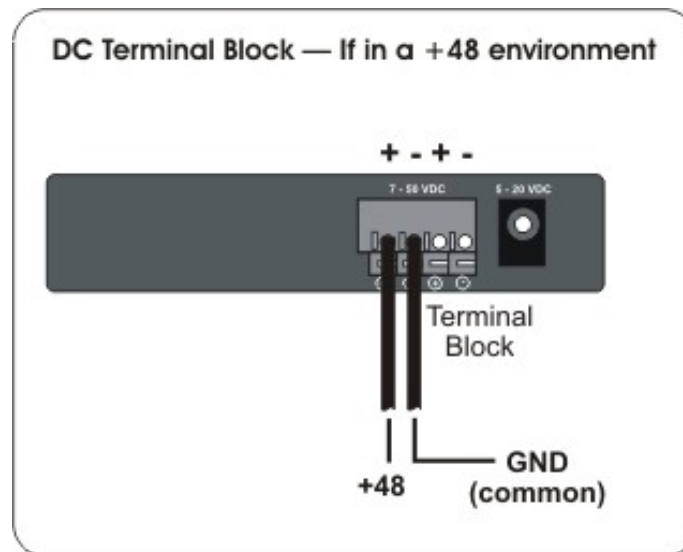
Powering the IE-MediaChassis/1

IE-MediaChassis/1 includes multiple powering options. Any of the following options can be used, or more than one for redundancy:

- A country-specific, high-reliability AC power adapter (included)
- The 4-terminal DC power block

DC Terminal Block Wiring Instructions

The IE-MediaChassis/1 can also be powered with the DC terminal block. From a power source, connect to any one positive and any one negative terminal on IE-MediaChassis/1. The following chart illustrates an example of the wiring configurations for the DC terminal block of IE-MediaChassis/1 (± 7 to ± 50 VDC).



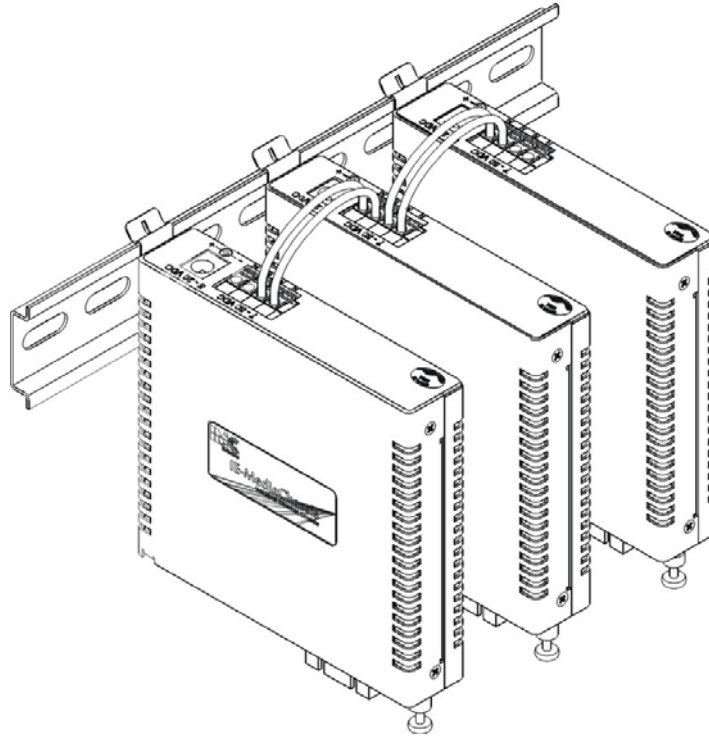
NOTE

When using stranded wire, the leads must be tinned. The chassis is protected against mis-wiring; if mis-wired the chassis will not function. The chassis is internally connected to the negative power terminal.

The power source in this chassis is not isolated, and cannot support positive reference ground systems typically used in Telco environments. The MediaChassis/2-DC and the iMediaChassis/6-DC are suitable alternatives.

Cascading DC Power

When installing multiple IE-MediaChassis/1 units on a DIN rail, use one DC input source then cascade from one DC block to the next, until reaching the maximum current available. Make sure to connect positive to positive and negative to negative.



DC Power Supply Precautions

The following precautions should be observed when installing chassis with DC power supplies.

1. Check nameplate ratings to assure there is no overloading of supply circuits that could have an effect on overcurrent protection and supply wiring.
2. When installing DC equipment, it must be installed only per the following conditions:
 - a. Connect the equipment to a ± 7 to ± 50 VDC supply source that is electrically isolated from the alternating current source. The ± 7 to ± 50 VDC source is to be connected to a SELV source.
 - b. Input wiring to terminal block must be routed and secured in such a manner that it is protected from damage and stress. Do not route wiring past sharp edges or moving parts.
 - c. A readily accessible disconnect device, with a 3 mm minimum contact gap, shall be incorporated in the fixed wiring.
3. Grounding: reliable grounding of this equipment must be maintained. Particular attention should be given to supply connections when connecting to power strips, rather than direct connections to the branch circuit.

Specifications

DC Input Voltage

±7 to ±50 VDC on DC terminal

5-20 VDC on DC jack

AC Wall Adapter

100-240 ±10% VAC input, 5 VDC output, 2A max.

Operating Temperature

-13°F to +185°F (-25°C to +85°C) with DC terminal

+14°F to +122°F (-10°C to +50°C) with AC wall adapter

NOTE
<i>The stated temperature (-25°C to +85°C) is for the IE-MediaChassis/1, and it does not apply to the modules.</i>

Storage Temperature

-49°F to +185°F (-45°C to +85°C)

Humidity

5 – 95% (non-condensing); 0 – 10,000 ft. altitude

Dimensions

H=0.91" W=4.30" D=4.00" (2.3 x 10.9 x 10.2 cm)

Electrostatic Discharge Precautions

Electrostatic discharge (ESD) can cause damage to any product, add-in modules or stand alone units, containing electronic components. Always observe the following precautions when installing or handling these kinds of products

1. Do not remove unit from its protective packaging until ready to install.
2. Wear an ESD wrist grounding strap before handling any module or component. If the wrist strap is not available, maintain grounded contact with the system unit throughout any procedure requiring ESD protection.
3. Hold the units by the edges; do not touch the electronic components or gold connectors.
4. After removal, always place the boards on a grounded, static-free surface, ESD pad or in a proper ESD bag. Do not slide the modules or stand alone units over any surface.



WARNING! Integrated circuits and fiber optic components are extremely susceptible to electrostatic discharge damage. Do not handle these components directly unless you are a qualified service technician and use tools and techniques that conform to accepted industry practices.

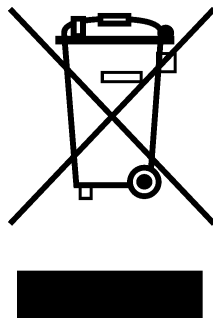
Safety Certifications

UL/CUL: Listed to Safety of Information Technology Equipment, including Electrical Business Equipment.

CE: The products described herein comply with the Council Directive on Electromagnetic Compatibility (2004/108/EC) and the Council Directive on Electrical Equipment Designed for use within Certain Voltage Limits (2006/95/EC). Certified to Safety of Information Technology Equipment, Including Electrical Business Equipment. For further details, contact IMC Networks.



European Directive 2002/96/EC (WEEE) requires that any equipment that bears this symbol on product or packaging must not be disposed of with unsorted municipal waste. This symbol indicates that the equipment should be disposed of separately from regular household waste. It is the consumer's responsibility to dispose of this and all equipment so marked through designated collection facilities appointed by government or local authorities. Following these steps through proper disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about proper disposal, please contact local authorities, waste disposal services, or the point of purchase for this equipment.





19772 Pauling • Foothill Ranch, CA 92610-2611 USA
TEL: (949) 465-3000 • FAX: (949) 465-3020
www.imcnetworks.com

**ISO 9001:2008
REGISTERED**



© 2012 IMC Networks. All rights reserved

The information in this document is subject to change without notice. IMC Networks assumes no responsibility for any errors that may appear in this document. IE-MediaChassis/1 is a trademark of IMC Networks. Other brands or product names may be trademarks and are the property of their respective companies.

Document Number 50-80101-00 A4

March 2012