

# IE-MediaChassis/1





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## 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

### **Limited Lifetime Warranty**

Effective for products of B&B Electronics Manufacturing Company shipped on or after May 1, 2013, B&B Electronics Manufacturing Company warrants that each such product shall be free from defects in material and workmanship for its lifetime. This limited lifetime warranty is applicable solely to the original user and is not transferable.

This warranty is expressly conditioned upon proper storage, installation, connection, operation and maintenance of products in accordance with their written specifications.

Pursuant to the warranty, within the warranty period, B&B Electronics Manufacturing Company, at its option will:

1. Replace the product with a functional equivalent;
2. Repair the product; or
3. Provide a partial refund of purchase price based on a depreciated value.

Products of other manufacturers sold by B&B Electronics Manufacturing Company are not subject to any warranty or indemnity offered by B&B Electronics Manufacturing Company, but may be subject to the warranties of the other manufacturers.

Notwithstanding the foregoing, under no circumstances shall B&B Electronics Manufacturing Company have any warranty obligations or any other liability for: (i) any defects resulting from wear and tear, accident, improper use by the buyer or use by any third party except in accordance with the written instructions or advice of the B&B Electronics Manufacturing Company or the manufacturer of the products, including without limitation surge and overvoltage conditions that exceed specified ratings, (ii) any products which have been adjusted, modified or repaired by any party other than B&B Electronics Manufacturing Company or (iii) any descriptions, illustrations, figures as to performance, drawings and particulars of weights and dimensions contained in the B&B Electronics Manufacturing Company's catalogs, price lists, marketing materials or elsewhere since they are merely intended to represent

a general idea of the products and do not form part of this price quote and do not constitute a warranty of any kind, whether express or implied, as to any of the B&B Electronics Manufacturing Company's products.

THE REPAIR OR REPLACEMENT OF THE DEFECTIVE ITEMS IN ACCORDANCE WITH THE EXPRESS WARRANTY SET FORTH ABOVE IS B&B ELECTRONIC MANUFACTURING COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY. THE WARRANTY CONTAINED IN THIS SECTION SHALL EXTEND TO THE ORIGINAL USER ONLY, IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ALL SUCH WARRANTIES AND INDEMNITIES ARE EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION (I) THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY AND (II) ANY WARRANTY THAT THE PRODUCTS ARE DO NOT INFRINGE OR VIOLATE THE INTELLECTUAL PROPERTY RIGHTS OF ANY THIRD PARTY. IN NO EVENT SHALL B&B ELECTRONICS MANUFACTURING COMPANY BE LIABLE FOR LOSS OF BUSINESS, LOSS OF USE OR OF DATA INTERRUPTION OF BUSINESS, LOST PROFITS OR GOODWILL OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES. B&B ELECTRONIC MANUFACTURING COMPANY SHALL DISREGARD AND NOT BE BOUND BY ANY REPRESENTATIONS, WARRANTIES OR INDEMNITIES MADE BY ANY OTHER PERSON, INCLUDING WITHOUT LIMITATION EMPLOYEES, DISTRIBUTORS, RESELLERS OR DEALERS OF B&B ELECTRONIC MANUFACTURING COMPANY WHICH ARE INCONSISTENT WITH THE WARRANTY, SET FORTH ABOVE.

## 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 B&B Electronics 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

*Please refer to the installation guide online for the module for configuration and operation information.*

*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.*

## 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

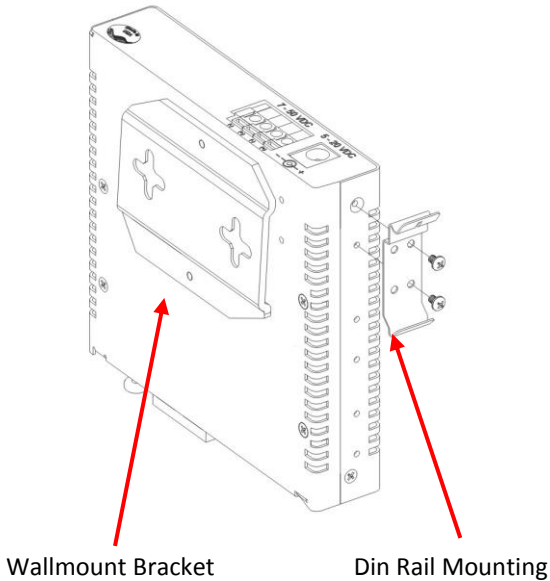
Wallmount Brackets, an optional accessory available through B&B Electronics (Part number 895-39229) allow the IE-MediaChassis/1 to be Wallmounted. Refer to DIN Rail Mounting diagram for this mounting option.

## DIN RAIL MOUNTING

The IE-MediaChassis/1 can be mounted with two DIN Rail clips, a hardware option available through B&B Electronics. 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.*





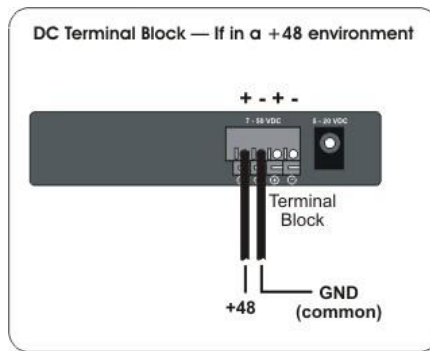
## POWERING THE IE-MEDIACHASSIS/1

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 ( $\pm 7$  to  $\pm 50$  VDC).



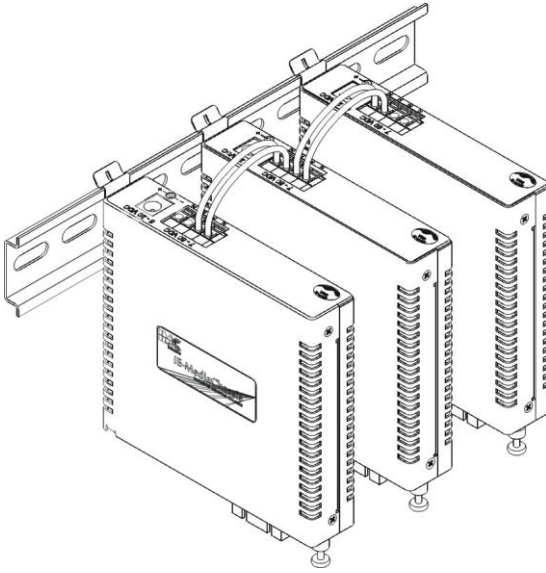
### NOTE

*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  $\pm 7$  to  $\pm 50$  VDC supply source that is electrically isolated from the alternating current source. The  $\pm 7$  to  $\pm 50$  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.

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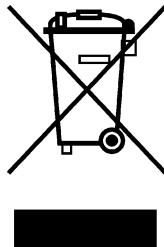
## SAFETY CERTIFICATIONS

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 B&B Electronics.



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.



**ISO 9001:2008**  
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