

The LAN Ethernet Bridge provides a secure, isolated connection of physically separate RS485 LAN segments over an Ethernet network for Inception, Integriti and Infiniti systems. The electrical isolation achieved between the LAN segments also eliminates the potential for earth loops.

The LAN Ethernet Bridge is Installer configurable and employs 128-bit AES encryption for secure Ethernet communications. It enrolls on the LAN as an RS485 LAN Module allowing status monitoring and reporting.

One or more LAN Ethernet Bridges are installed in remote locations to provide an interface between an Ethernet network and the local RS485 LAN segment. The Ethernet network provides the communication path between the Controller's on-board Ethernet Port and the LAN Ethernet Bridge. An Ethernet Bridge is not required at the Controller end.

## Features

- Compatible with Infiniti, Integriti and Inception
- Does not require a master / slave configuration – Ethernet Bridge Module communicates directly with Controller
- Up to 30 Ethernet Bridge Modules per Controller
- Up to 30 RS-485 LAN modules downstream from Ethernet Bridge Module
- Allows TCP or UDP connections
- RS-485 expansion via IP infrastructure
  - Use existing IP Networks to save wiring time & costs
  - Allows for flexible system design
- Remote configuration via Ethernet LAN Configuration Tool
- Over-The-Wire firmware upgradeable
- AES 128-Bit Encryption
- External Integriti power supply connection
- Full monitoring of external Integriti SMART power supply
- Dedicated cabinet tamper input

## Specifications

### Physical

PCB Dimensions:	105 (L) x 94(W) x 18(H) (mm)
Installation Environment:	0° to 49° Celsius (32° to 120° F)
	15% to 85% Relative humidity (non-condensing)

### Electrical

Input Voltage to PCB:	11-14VDC
Operational Current:	60mA

### Cabling

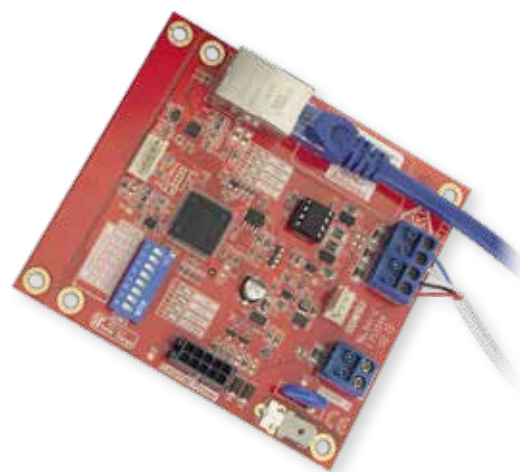
Ethernet Port:	As per standard 10/100MHz Ethernet cabling specifications.
RS485 LAN Port:	As per Integriti/Inception LAN cabling specifications.

### Minimum Firmware / Software Versions

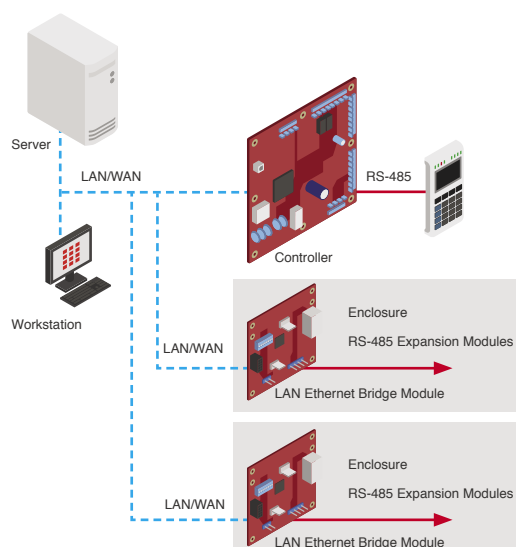
Integriti/Infiniti ISC/IAC Firmware:	V20.1 or later.
Integriti/Infiniti Software:	V20.1 or later.
Inception Firmware:	V4.0 or later.

### Compliance

Electrical:	  
Environmental:	 



## Connectivity



## Module Limitations

The number of LAN modules a Controller can support via LAN Ethernet Bridges is limited depending on the types of modules being deployed, and the Ethernet Protocol being used (TCP or UDP). Refer module limitations table below:

Module Type	TCP	UDP
Intruder Alarm Only	90	135
Simple Access Control or Integrated System	60	90
Access Control System with Intelligent LAN Access Modules	30	45

More details on module limitations can be found in the LAN Ethernet Bridge installation manual.

## Ordering Options

**IR-996088**  
Ethernet Bridge Module

