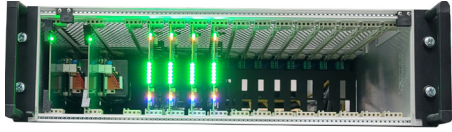


FIM In2iT SERIES

Fiber Interface Manager



Fiber Interface Manager (FIM) Chassis Mount



Fiber Interface Manager (FIM) Endpoint



In2iT RANGE

The In2iT Range is Guardian Telecom's next generation In-Plant Communications platform with the latest technology and easy to use, rugged communication equipment to solve In-Plant Paging concerns while maximizing integration options and easing implementation costs.

FIM In2iT SERIES

Guardian Telecom's Fiber Interface Manager (FIM) is ideal for extending paging/alarm and talk lines from the In2iT and legacy Page/Talk systems over fiber to reduce long distance copper infrastructure between sites. The FIM converts Page/Talk signals (audio and data) into a digital format that can be transmitted via an SFP device module.

The FIM is offered in two form factors. A multi-zone rackmount chassis unit and a single zone module. The receiving unit can be wall, shelf or rack mounted.

The FIM is designed so that each module supports a complete broadcast zone that consists of five talk channels, a page channel, and a data port. The outputs are designed to directly interface without additional line balancing or audio conditioning.

FEATURES and BENEFITS

- Continuous independent health monitoring of the modules
- Redundant power supplies
- SFP receiving cage – maximizes installation flexibility for supported modules
- Modular design can support one to twelve zones per chassis. Additional 12 per each chassis added to system
- Anti-howl and echo cancelling system
- Comprehensive front panel diagnostic display indicators
- Field upgradeable and modules can be hot swapped if necessary
- Cable management support system
- Receiving station can be shelf, wall and with adapter, rack mounted
- Plug and play design
- Backward compatible with Guardian Telecom's legacy Page/Talk system*

** Equipment is designed for use in Guardian Telecom's In2iT Page/Talk Communications systems and is backwards compatible for use with the original Page/Talk System. The Headend Chassis must be paired with a minimum of one Endpoint Unit.*

APPLICATIONS

The In2iT system is designed to provide in plant communications, paging and alarm monitoring in harsh environments that are subject to moisture, dust and corrosive chemicals such as:

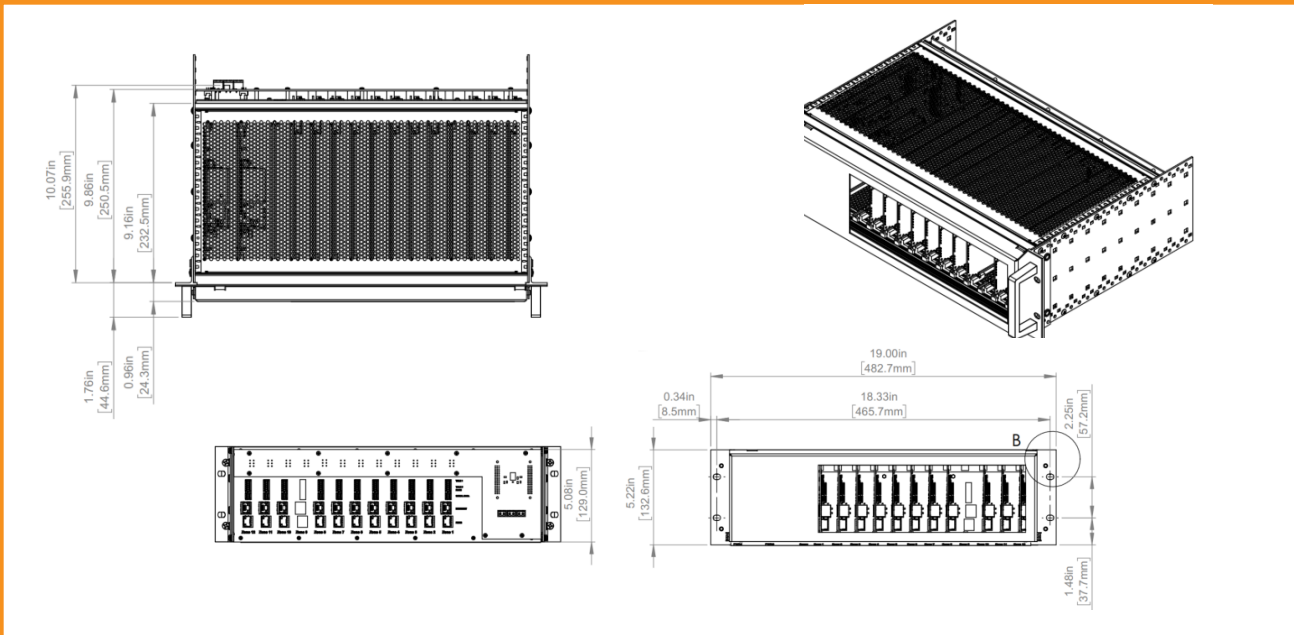
- | | |
|-----------------------|---|
| Mines | Grain Processing and Similar Industries |
| Chemical Plants | Power Generation Facilities |
| Refineries | Fertilizer Plants |
| Drilling Rigs | Food Processing Plants |
| Defense Installations | Sewage Plants |
| Cement Plants | Construction Sites |
| Bulk Loading Stations | Breweries & Distilleries |
| Pulp & Paper Mills | Pharmaceutical Plants |
| | and more . . . |



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OVERALL DIMENSIONS



FIM - In2iT SERIES Fiber Interface Manager

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Multi-Zone Unit:	
Supply Voltage:	100VAC – 250VAC; 50/60Hz
Power Load @ 16 to 24VDC per Module:	5W max
Single Zone Unit:	
Supply Voltage (External):	16-24VDC
Power Supply Current:	500mA max

AUDIO PERFORMANCE

Audio Coding:	Wideband Linear PCM
End to End Voice Bandwidth:	Low freq 3 dB cut-off: 250 Hz High freq 3 dB cut-off: 6500 Hz
Talk and Page Line Transmit Level:	Continuous 1.5VRMS
Station Off Hook Threshold Resistance:	12k to 20kΩ
Audio Line Reference Impedance:	Line Balanced For P/T:33Ω

OPTICAL TRANCEIVER SPECIFICATIONS

Optical Transceiver*:	SFP compliant industry standard
Optical Bit Rate:	147,456Mbps
Duplex Configuration:	Full Duplex

DATA COMMUNICATIONS

Serial Communications to Page Talk Endpoints:	ASK @ 1.2kbps
Duplex:	Full duplex

MECHANICAL SPECIFICATIONS

Multi-Zone Unit:	
Outside Dimensions (L x W x D):	19" [483mm] x 5.25" [133mm] x 15" [381mm]
Rack Units:	3U
Zone Modules Supported:	Up to 12 zones
Weight (unpacked):	Base unit, single zone - 4 lbs [9kg] Full config, 12 zone - 13 lbs [26kg]

End Point Chassis:	
Outside Dimensions (L x W x D):	5.14" [131mm] x 1.96" [40mm] x 9.1" [230mm]
eight (Unpacked):	Base unit, single zone - 4 lbs [9kg]
Rack mount Adapter:	Supports 2 units@ 1U

* SFP Transceiver is sold separately and performance based on the customer site configuration.
** Rack chassis standard base configuration includes chassis, Qty 2 power supply modules and Qty 1 fiber interface module.

ENVIRONMENTAL

Chassis	Indoor Use Only
Operating Temperature	+32F to +122F [+0C to +50C]
Storage Temperature	-40F to +176F [-40C to +80C]

COMPLIANCE

Electrical Safety:	60950-1
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ORDERING INFORMATION

Warranty: Five year parts and labor

Order No.	Description
P6719	Back Chassis 1-12 zones
P6720	End Point Unit (includes rack mount kit)
P008189	Fiber Interface Module

Distributed by:



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