GE
Security

TT/TR3000 Series
IFS Touch-Tone Telephone Interface

Overview

The IFS TT/TR3000 Series Touch-Tone Telephone Digital Interface provides extended transmission to be used with analog systems over one or two optical fibers using the latest in digital transmission technology. The modules also support many enhanced telephone services offered by telephone providers, such as Call-Waiting, and 3-Way Calling. Models within this series are available for use with multimode or singlemode optical fiber. Plug-and-play design ensures ease of installation. The module incorporates power and carrier detect status indicating LED's to monitor proper system operation. The module is available in either stand-alone or rack mount versions.

Application Examples

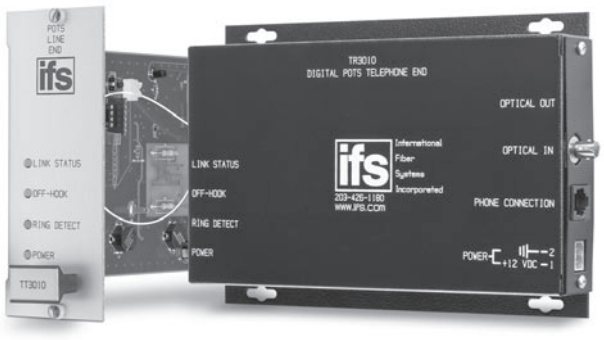
- Extend The Distance Of Remote Telephone Extensions
- Intercom Systems That Utilize A Touch-Tone Interface
- Use for Controlling Remote Equipment That Utilizes Touch-Tone Signaling For Control.
- Screen-Room Applications Where Non-Metallic Cables Are Required

Standard Features

- Digital Fiber Transmission
- Supports both 48-Volt and 24-Volt Systems, to be used with Analog Systems
- Supports 90-Volt Ringer Voltage
- Plug and Play Design Ensures Ease of Installation
- Industry Standard RJ-11C Connector
- Power and Carrier Detect Status Indicating LED's to Monitor System Performance
- Automatic Resettable Fuses on All Power Lines
- Compatible with Talk-A-Phone™ , Code Blue™ and Trigon™
- Hot-Swappable Rack Modules
- Distances up to 41 Miles (66 Km) without Repeaters
- Comprehensive Lifetime Warranty

Touch-Tone Telephone Interface

Provides extended transmission to be used with analog systems over one or two optical fibers using the latest in digital transmission technology.



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gesecurity.com/ifs

Specifications subject to
change without notice

Agency compliance

FCC PART 15 COMPLIANT CE cULus GSA Federal Supply Schedule Contract No. GS-07F-0049M

Made in the USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

Specifications

Audio

Input/Output:	Standard Touchtone Telephone
Bandwidth:	150 Hz - 5 kHz
Signal-to-Noise Ratio (SNR):	>60 dB
I/O Impedance:	600 ohms balanced

Wavelength

TT/TR3020WDM:	1310/1550 nm, Multimode
TT/TR3030WDM:	1310/1550 nm, Single Mode, Laser

Number of fibers 1

Connectors

Optical:	ST
Power:	Terminal Block with Screw Clamps
Data:	RJ-11

Electrical & Mechanical

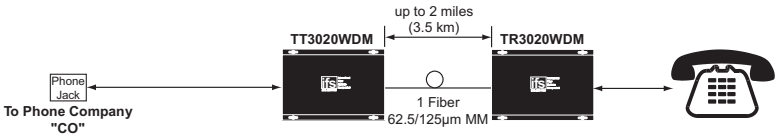
Power:	
Surface Mount:	TT: 12 VDC @ 200 mA TR: 12 VDC @ 500 mA
Rack:	From Rack
Number of Rack Slots:	2
Current Protection:	Automatic Resettable Solid-State Current Limiters
Max. RG59 Cable Length:	750 ft.
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 2.5 cm
Rack Mount:	7.7 x 5.0 x 1.0 in., 19.6 x 12.7 x 2.5 cm
Shipping Weight:	< 2 lbs./0.9 kg

Environmental

MTBF:	> 100,000 hours
Operating Temp:	-40° C to +74° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†

†May be extended to condensation conditions by adding suffix '–C' to model number for conformal coating.

System Design



Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	TT3020WDM TR3020WDM	Touchtone Telephone Interface (1310/1550 nm) Touchtone Telephone Interface (1550/1310 nm)	1	13 dB	2 miles (3.5 km)
Single Mode 9/125µm	TT3030WDM TR3030WDM	Touchtone Telephone Interface (1310/1550) Touchtone Telephone Interface (1550/1310)	1	23 dB	41 miles (66 km)
Accessories	PS-12VDC 12 Volt DC Plug-in Power Supply (Included) PS-12VDC-230 12 Volt DC Plug-in Power Supply, 230 VAC Input (Included if specified at time of order)				
Options	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately) Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory) Add '-T' for Talk-A-Phone™ (Call for complete models				

*Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
Distance can also be limited by fiber bandwidth. **For 50/125 Fiber, subtract 4 dB from Optical Power Budget. All accessories are third party manufactured.

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