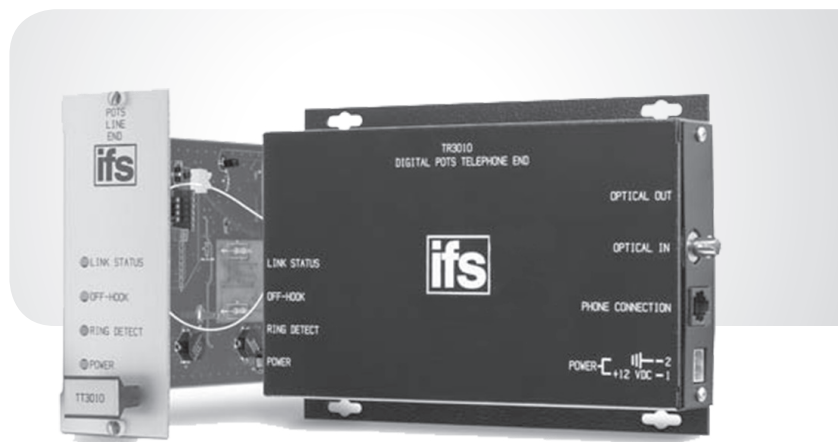


# TT/TR3000 Series

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 multi-mode 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.

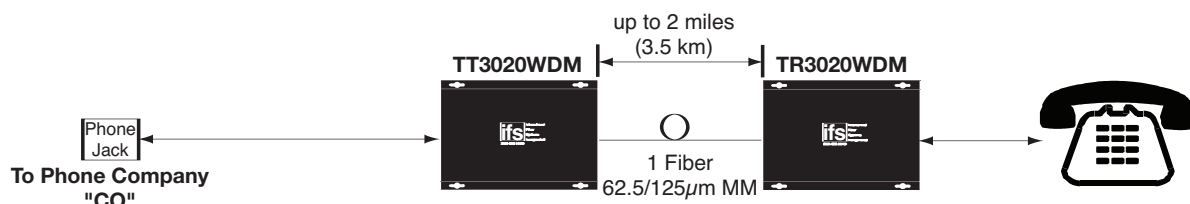
## STANDARD FEATURES

- 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

## 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

## SYSTEM DESIGN



# TT/TR3000 Series

IFS Touch-Tone Telephone Interface

North America  
T 855-286-8889

Latin America  
T 561-998-6114

## Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	TT3020WDM	Touchtone Telephone Interface (1310/1550 nm)	1	13 dB	2 miles (3.5 km)
	TR3020WDM	Touchtone Telephone Interface (1550/1310 nm)	1	13 dB	2 miles (3.5 km)
Single Mode 9/125µm	TT3030WDM	Touchtone Telephone Interface (1310/1550 nm)	1	23 dB	41 miles (66 km)
	TR3030WDM	Touchtone Telephone Interface (1550/1310 nm)	1	23 dB	41 miles (66 km)
Accessories	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			
Options	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately)				
	Add '-T' for Talk-A-Phone™ (Call IFS for compatible 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.

## Specifications

### Audio

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

### Wavelength

TT/TR3020WDM:	1310/1550 nm, Multimode
TT/TR3030WDM:	1310/1550 nm, Singlemode, Laser

### Number Of Fibers

TT/TR3020WDM:	1
TT/TR3030WDM:	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
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 5.5 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)

### Agency Compliance

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



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Specifications subject to change without notice.

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TT/TR3000 Series