

# TIF-PRO2 SIP Interface 2 Channels Interfaces



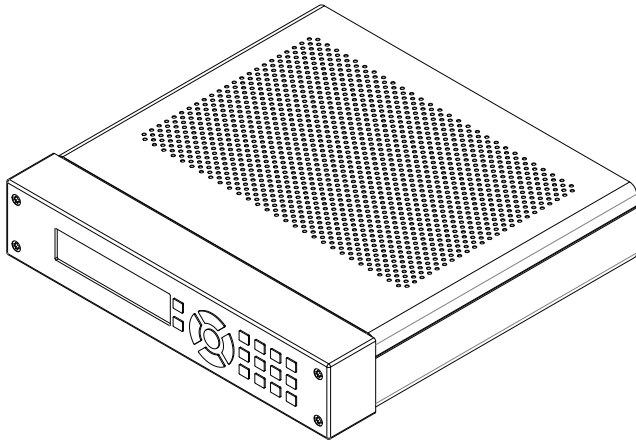
The TIF-PRO2 provides increased IP/digital/analog connection density in a compact half-rack-unit form factor. The device offers seamless interoperability with the latest RTS IP/digital keypanels and matrices, along with legacy IP/digital/analog RTS intercom hardware. It comes equipped with two SIP IP lines, each with a 64 kbps data rate (with overhead 100 kbps); additional features and functions are available via chargeable software upgrades

Quiet, fan-free operation further enhances sound quality. Connectors include two analog AUDIO I/O or one digital AES/EBU I/O (software configurable), two TTL I/O, two relay outputs (all software configurable), two RS-485 with RTS control protocol, and two relay outputs. System configuration can be carried out via the front panel or remotely via the various software options.

In the 7kHz operation mode for each 7kHz (G.722) audio codec, separate transparent data channels with an RS-485 interface are available. These data channels are used for remote keypanel control.

- ▶ Dual VoIP (SIP) as standard, PSTN, BRI-ISDN, and AES67 ready; and multiple modes for enhanced connectivity between keypanels and matrices.
- ▶ Fully interoperable with RTS digital/IP keypanels/matrices and legacy RTS hardware.
- ▶ User friendly, while maintaining quiet, fan-free operation; easy to control and configure via the front panel or remotely via specialized software.
- ▶ Standard package includes a single-unit rack-mount kit (dual-unit kit available), a desktop power supply (12 V), four adhesive rubber feet, an RS-485/audio adapter cable, and a USB stick with the TIF-PRO2 PC software and user manual.
- ▶ Designed to deliver superior audio performance, with 3.1 kHz audio bandwidth and 7 kHz of audio bandwidth in HD quality using the G.722 codec.

## System overview



## Parts included

Quantity	Component
1	RTS TIF-PRO2 Hardware

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1	Desktop Power Supply 12V / 3.34A DC 90 - 264V AC
2	Mounting Brackets
6	Screws for mounting the rackmount kit
4	Self-adhesive rubber foot
1	RS485/Audio Adapter Cable
1	USB stick with RTS TIF-PRO2 PC-Software and Manual

### Technical specifications

CODING ALGORITHMS	
G.711	A-Law / $\mu$ -Law, 3.1 kHz (Telephone algorithms)
G.722	HD-Voice, 7 kHz
LINE INTERFACES	
ISDN	
1xS <sub>0</sub>	I.430, RJ45
<b>Protocol</b>	DSS-1, NI-1, Japanese ISDN
POTS	
2xPOTS	RJ12
LAN	
1xLAN	RJ45
CONTROL INTERFACES	
LAN	RJ45
TTL / RELAY	9-pin D-SUB socket
2x TTL Input /Output	3.3 V / 10 mA Function can be programmed
2x Relay	48 V / 200 mA Function can be programmed
DATA INTERFACES	
RS485	
2x RS485	V.11, 9-pin D-SUB socket

AUDIO INTERFACES	
Analogue Audio 1 / 2	
Electronically balanced input	XLR female
Electronically balanced output	XLR male
Nominal level	-3 to +9 dBu Can be programmed
Head room	0 to +15 dBu Can be programmed
Impedance Input	>25 K $\Omega$
Impedance Output	50 $\Omega$
Frequency Response	50 Hz to 7 kHz
Signal to noise ratio	>80 dB
Noise	-92 dB
Digital Audio AES / EBU	
Format	IEC-958 AES / EBU Professional
Balanced Input	XLR female
Balanced Output	XLR male
Sample Rate converter at the inputs	
SIGNAL PROCESSING	
	AGC per channel, configurable
	Echo canceller per channel (100 msec echo cancelling time)
	Expander per channel, configurable
DISPLAY	
Graphical resolution	160 x 32 Pixel
Illuminated, can be switched off	
POWER SUPPLY VIA EXTERNAL ADAPTER	
Direct Voltage (DC)	+12 V
Power consumption	Max. 15 W
ENVIRONMENTAL	

H x W x D	1.7 in. x 8.7 in. x 7.9 in. (44 mm x 220 mm x 200 mm)
Weight	Ca. 3.75 lb (Ca. 1.7 kg)
Temperature	41 °F to 113 °F (5 °C to 45 °C)
Relative humidity	5% to 85%

### Ordering information

#### TIF-PRO2 SIP Interface 2 Channels

2-channel telephone interfaces, capable of SIP operation. Upgradeable for PSTN and ISDN operation.  
Order number **TIF-PRO2 | F.01U.397.073**

### Accessories

#### TIF-PRO2 RMKD Dual 19" Rackmount kit for 2 TIF-PRO 2

For installing two TIF-PRO2 side by side in 1 RU.  
Order number **TIF-PRO2 RMKD | F.01U.397.074**

### Software Options

#### TIF-PRO2 PSTN TIF-PRO 2 PSTN 2-Channels Upgrade

TIF-PRO2 2-channels PSTN upgrade. ISDN is also enabled with this upgrade (subject to change).  
Order number **TIF-PRO2 PSTN | F.01U.397.068**

#### TIF-PRO2 AES TIF-PRO 2 AES67 4-Channels Upgrade

2 x RX and 2 x TX AES67 channels (DANTE/RAVENNA compatible via SAP)  
Order number **TIF-PRO2 AES | F.01U.397.724**

#### TIF-PRO2 WML TIF-PRO 2 Workstation Management License

Software for configuration & operation for additional workplaces.  
(one license is already included in the system delivery.)  
Order number **TIF-PRO2 WML | F.01U.397.723**

#### Represented by:

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