Touchboards

TECHNICAL SPECIFICATIONS

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	OARDS (26273)	
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				Fax: (732)-222-7088 E-mail: sales@touchboards.com
RGB VIDEO INPUT				
Connector	1-HD-15 female			
Signal Type	1 RGBHV, RGBS, RGsB, RsGsBs, Component, S-video or Composite			
Maximum Resolution	1920 X 1080 (1080P)			
Impedance Level (nominal)	75Ω Analog 0.7V p-p			
,	+-1.0 V			
Level (maximum)	+-1.0 V			
RGB VIDEO OUTPUT	1115 15 1	<u> </u>		
Connector		connector (Brick models hav	ve an additional HD-15 loopback connector)
Signal Type Gain	Same as input Unity			
Impedance	75Ω			
Sync output	5V into Hi Z, 2.2	Vinto 750		
	3V IIIIO FII Z, 2.2	V IIIIO 7522		
AUDIO INPUT	105		" ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
Connector			valiplates), 3 pin l	Phoenix plug (bricks)
Signal type	Stereo unbalano 0.25V RMS -100			
Level (nominal) Level (maximum)	1.1V RMS, +3dE			
Impedance	50 kΩ	DIII		
Encoding	Full stereo 24 bi	t 06kHz car	nnle rate	
	20Hz-15kHz +-0		пристаге	
Frequency response	20HZ-13KHZ +-0	.oub		
AUDIO OUTPUT	Mallalata and		0.004 :	
Connector	Wallplate model Brick model rec		2 RCA jack co	nnectors e screw terminals
Signal type	Stereo unbalano		3 piii piuggabii	e screw terminals
Impedance			DΩ or greater load	d)
Gain	Unity +- 1.5dB	ourve a cov	712 or greater road	α)
	Offity + 1.5dB			
CONTROL ADJUSTMENTS	Indonendent for	D. C. and D.	dalay (Charry man	dala anti)
Delay Adjust Delay range	0-62 ns (Skew i		delay (Skew mod	dels orliy)
Video Boost Switch	Dip switch (OFF			
Gain control	Manual combine			
RS-232 DATA INPUT	Manual Combine	ed Control 1C	Пав	
Number/Type	One DB-9 female connector. (4 pin Phoenix plug on brick models) DCE type connection for direct connection to a PC serial port included on two gang transmitters only. Must order TPRO-Serial DB-9 accessory harness for one gang transmitters.			
Handshaking	Local loopback	only (Models	s with DB-9 conn	ectors only)
RS-232 type	Unidirectional (d	ata transmis	ssion from transm	nitter to receiver only)
RS-232 DATA OUTPUT				
Number/Type	One DB-9 male	connector. I	DTE type connec	tion for direct connection to peripheral.
Data Rate	0-19.2k baud			
INFRARED INPUT				
	Both models ha	e internal s	sensor logically C	R'd with hardwired input.
Number/Type	T-PRO TX brick			uggable Phoenix connector
	T-PRO-TX wallp	late models		SL 5-pin connector on the back of the unit.
Compatibility	Compatible with	most IR ou	tputs designed to	o drive an IR emitter LED.
INFRARED OUTPUT				
	One3.5 mm min	i jack, cente	r positive. All TP	RO-RX models
Number/Type	(Use FSR IR-EC	1-6 single o	r IR-EC2-6 dual e	emitter accessory.)
Output Switch	Dip switch (Norr	nal 12 mW/l	High 60mW)	
Carrier Range	40 kHz, custom	frequencies	available per req	uest.
POWER REQUIREMENTS				
TPRO-RX Receivers	24VDC@0.12A	(Skew mod	els are 24VDC@0	D.19A)
TPRO-TX Transmitters	24VDC@0.09A			·
	Power supplies	are optional	. Use FSR PS-24	4DC-500MA
MECHANICAL	Model		ions (inches)	Shipping weight lbs.
Transmitter enclosure	Brick Wall plate	4.22 X 1	1.59 X 4.10 1.09 X 1.46	Chipping Weight isc.
Receiver enclosure	Brick Wall plate	4.22 X 1	1.59 X 4.10 1.09 X 1.29	
GENERAL				
UTP cable wiring standard/ type	EIA / TIA-568B	CAT5. 5F. 6		
Recommended transmission range	0-1000 ft with a when powered a The maximum d	single powe at receiver. V istance to a	er supply (Up to o When using a TPI transmitter is 10	600' when powered at transmitter. Up to 1000' RO-HUB with included power supply: 00'. The maximum distance to a receiver is 600' * ling an additional power supply at the receiver









TwisterPro

UTP Transmitter/Receiver System









DESCRIPTION

The TwisterPro™ UTP Transmitter / Receiver System allows video, stereo audio, RS-232 data and IR signal transmission over ordinary low cost CAT-5, 5e, 6 and cable. This system offers the highest level of signal integrity. These high quality devices ensure reliable, error free transmission that is immune to interference from electrical noise. Cable runs of up to 1000 feet are within the capabilities of the system (see specs for maximum cable length details).

There are wall plate style transmitters (1-gang and 2-gang) and receivers (2-gang) offered in three colors; black, white, and ivory. Matching Decora™ trim rings are included for stand alone use, or the units be populated along with FSR's IPS component and plates for a complete interface solution. There are also "brick" style housing versions that can be used on any surface or rack mounted using the accessory rack kits if preferred. (See TwisterPro™ accessories and ordering info).

TPRO receivers with skew compensation adjustments are optional and help adjust for misconvergence of the red, green and blue video signals that can occur as a result of inherent delay caused by differences in cable twist lengths.

The system can be powered at either the transmitter or receiver end by the optional power supply(s). If a TPRO- HUB is used, the hub with it's included power supply, will power the other components in the system. This 1 in 8 out hub allows full expandability for demanding applications. Multiple hubs can be cascaded to achieve a maximum of 512 outputs.

FEATURES

RGB Video Transmission system

- HD-15 female connectors for video input and output
- CAT-5 connections are via RJ-45 Connectors (EIA/TIA-568B)
- Video resolutions up to 1920 x 1080 (1080p)
- Cable skew compensation adjustments on -S model receiver
- Adjustable gain control on front panel

RS-232 Data Transmission

- DB-9 female connectors for the inputs and male for outputs (optional for TPRO-TX wallplate models)
- UTP connections are via RJ-45 Connectors (EIA/TIA-568B)
- Compatible with RS-232 standards
- UL and CSA approved external power source (wall plug-in)
- Simplex RS-232 up to 19.2k baud
- LED indication of RS232 data activity

IR Control Data Transmission

- Compatible with most IR devices
- Custom carrier frequencies are available per customer request
- Extends IR control up to 1000 feet
- Normal and high output emitter power level settings
- High output power level settings up to 60mW allows for multiple emitter connections - (emitters sold separately)
- Transmitters feature integrated IR sensors in addition to hard-wired input options
- LED indication of IR data activity

General

- Units can be powered at either end or through optional hub
- Over-current sensing with LED indication
- Video, RS-232 and IR LED indicators
- Optional 1 in 8 out TPRO-HUB with power supply available

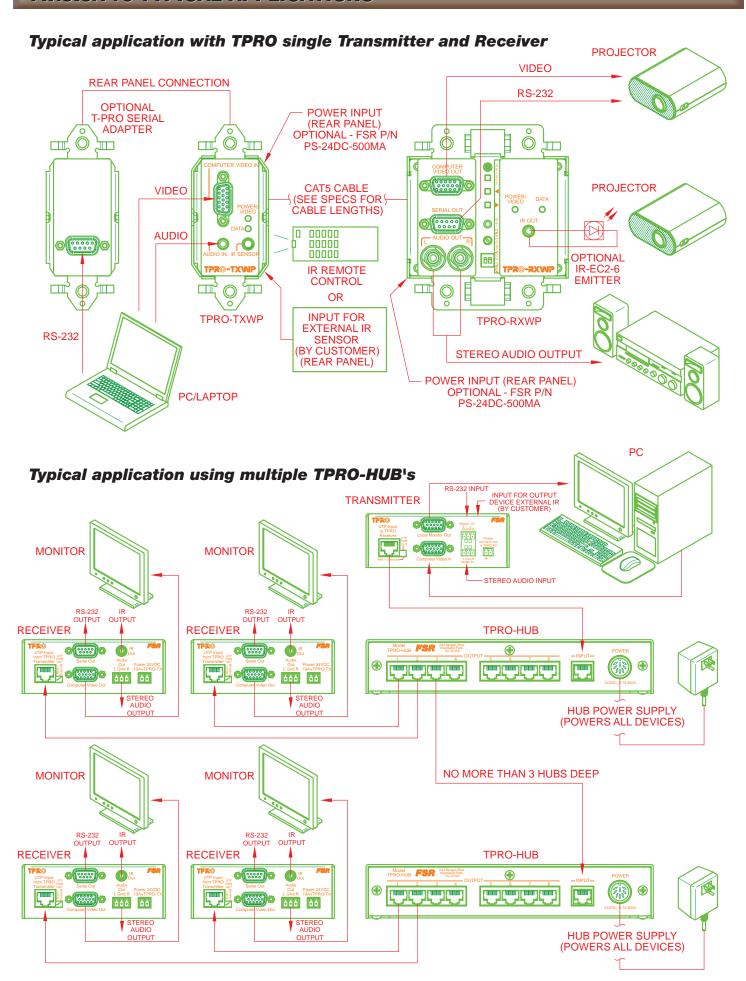
APPLICATIONS

- Boardrooms
- Houses of Worship
- Control Rooms
- Classrooms
- Digital Signage
- Hotel/Conference Facilities
- Temporary Staging and Rental

FSR Inc.

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TwisterPro TYPICAL APPLICATIONS



TwisterPro ORDERING INFORMATION

TwisterPro requires a Transmitter (choose your preference), a Receiver (choose your preference), and Power Supply. No power supply is needed if you are connecting to the TwisterPro Hub.

Twiste	TwisterPro Wall Plate Transmitters - Includes Decora Trim Ring		
Item #	Part #	Description	
16991	TPRO-TXWP-BLK	1 Gang Decora PC Video, St Aud, IR Transmitter Wall Plate - Black	
16992	TPRO-TXWP-WHT	1 Gang Decora PC Video, St Aud, IR Transmitter Wall Plate - White	
16993	TPRO-TXWP-IVO	1 Gang Decora PC Video, St Aud, IR Transmitter Wall Plate - Ivory	
16994	TPRO-TXWPD-BLK	2 Gang Decora PC Video, St Aud, IR, Serial Transmitter - Black	
16995	TPRO-TXWPD-WHT	2 Gang Decora PC Video, St Aud, IR, Serial Transmitter - White	
16996	TPRO-TXWPD-IVO	2 Gang Decora PC Video, St Aud, IR, Serial Transmitter - Ivory	

TwisterPro 1RU x 1/4 Wide Brick Transmitter		
16998	TPRO-TXD	PC Vid, St Aud, IR and Serial Transmitter 1 RU x 1/4 Wide

Twiste	TwisterPro Wall Plate Receiver - Includes Decora Trim Ring			
17009	TPRO-RXWPD-BLK	2 Gang Decora PC Video, St Aud, IR, Serial Receiver - Black		
17010	TPRO-RXWPD-WHT	2 Gang Decora PC Video, St Aud, IR, Serial Receiver - White		
17011	TPRO-RXWPD-IVO	2 Gang Decora PC Video, St Aud, IR, Serial Receiver - Ivory		
17012	TPRO-RXWPDS-BLK	2 Gang Decora PC Vid, St Aud, IR, Ser and Skew Comp Rx - Black		
17013	TPRO-RXWPDS-WHT	2 Gang Decora PC Vid, St Aud, IR, Ser and Skew Comp Rx - White		
17014	TPRO-RXWPDS-IVO	2 Gang Decora PC Vid, St Aud, IR, Ser and Skew Comp Rec - Ivory		

TwisterPro 1RU x 1/4 Wide Brick Receiver		
17015	TPRO-RXD	PC Vid, St Aud, IR, Serial Receiver 1 RU x 1/4 Wide
17016	TPRO-RXDS	PC Vid, St Aud, IR, Serial and Skew Comp Receiver 1 RU x 1/4 Wide

TwisterPro Power Supply		
15552	PS-24DC-500MA	24VDC 500ma Power Supply

Twiste	rPro Hub	
17017	TPRO-HUB	1 in 8 Out Hub with Power Supply

Twiste	rPro Accessories	
17018	TPRO-Serial	DB-9 and Wiring Harness to connect to TXPro Wall Plate Transmitters
17019	IR-EC1-6	Single Head IR Emitter w/ 3.5mm Jack
17020	IR-EC2-6	Dual Head IR Emitter w/ 3.5mm Jack
15773	SS-P1DB-WHT	White Insert punched w/ 1 9-Pin D-Sub Hole
15774	SS-P1DB-IVO	Ivory Insert punched w/ 1 9-Pin D-Sub Hole
15775	SS-P1DB-BLK	Black Insert punched w/ 1 9-Pin D-Sub Hole
15706	SS-DPLT2-WHT	White Double Gang Decora Wall Plate
15707	SS-DPLT2-IVO	Ivory Double Gang Decora Wall Plate
15708	SS-DPLT2-BLK	Black Double Gang Decora Wall Plate
16808	RK-1	1/4 and 1/2 Rack Mounting Kit
16809	RK-2	1/4 and 1/2 Rack and Module Mounting Shelf