

Specifications — MTP T Series, MTP R Series

Video

Gain	Unity
Differential phase error	<1.0° at 3.58 MHz and 4.43 MHz
Differential gain error	<1.0% at 3.58 MHz and 4.43 MHz

Video input

Number/signal type	
MTP T CV/AV Series, MTP T AV 45	1 composite video
MTP T SV Series, MTP T SVA 45	1 S-video
MTP R CV/AV/SV Series	1 set of proprietary analog signals
Connectors	
MTP T CV/AV Series	1 female BNC
MTP T AV AAP, MTP T AV 45	1 female RCA
MTP T SV Series, MTP T SVA 45	1 female 4-pin mini DIN
MTP R CV/AV/SV Series	1 female RJ-45
Nominal level	1 V _{p-p} for Y of S-video and for composite video 0.3 V _{p-p} for C of S-video
Minimum/maximum levels	0.3 V to 1.5 V _{p-p} with no offset
Impedance	75 ohms
Return loss	<-30 dB, DC @ 10 MHz
DC offset (max. allowed)	100 mV

Video output

Number/signal type	
MTP T CV/AV/SV Series, MTP T AAP Series, and MTP T 45 Series	1 set of proprietary analog signals
MTP R CV/AV Series	1 composite video
MTP R SV Series	1 S-video
Connectors	
MTP T CV/AV/SV Series	1 female RJ-45
MTP T AAP Series	1 female RJ-45 on a 3" (7.6 cm) pigtail
MTP T 45 Series	(1) 8-pin spring force wire connector
MTP R CV/AV Series	1 female BNC
MTP R SV Series	(1) 4-pin mini DIN
Nominal level	1 V _{p-p} for Y of S-video and for composite video 0.3 V _{p-p} for C of S-video
Minimum/maximum levels	0.3 V to 1.5 V _{p-p}
Impedance	75 ohms
Return loss	<-35 dB @ 5 MHz
DC offset	±5 mV with input at 0 offset

Sync

Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
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Audio — audio models (A, AV, SVA models) only

Gain	
RCA models	Unbalanced output: 0 dB (unity)
All other models	Unbalanced output: 0 dB (unity); balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ± 0.25 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N	
RCA models	>90 dB, at rated maximum output
All other models w/audio	>90 dB, balanced at maximum output
Crosstalk	<-80 dB @ 1 kHz, fully loaded
Stereo channel separation	>75 dB @ 1 kHz
CMRR	>50 dB @ 20 Hz to 20 kHz

Audio input — audio models (A, AV, SVA models) only

Number/signal type	
MTP T AV, MTP T SV A .	1 stereo, balanced/unbalanced
MTP T AV/SV A RCA, MTP T AAP, MTP T 45 Series	1 stereo, unbalanced
MTP R Series	1 set of proprietary analog signals
Connectors	
MTP T AV, MTP T SV A .	(1) 3.5 mm captive screw connector, 5 pole
MTP T AV/SV A RCA, MTP T AAP, MTP T 45 Series	1 pair of RCA female
MTP R Series	1 female RJ-45 (shielded)
Impedance	>6.3k ohms unbalanced, >10k ohms balanced, DC coupled
Nominal level	-10 dBV (0.32 Vrms)
Maximum level	>+2.4 dBu (balanced or unbalanced) at 1%THD+N

NOTE $0 \text{ dBu} = 0.775 \text{ Vrms}$, $0 \text{ dBV} = 1 \text{ Vrms}$, $0 \text{ dBV} \approx 2 \text{ dBu}$.

Audio output — audio models (A, AV, SVA models) only

Number/signal type	
MTP T Series (all models)	1 set of proprietary analog signals
MTP R AV, MTP R SV A	1 stereo, balanced/unbalanced
MTP R AV/SV A RCA	1 stereo, unbalanced
Connectors	
MTP T Series	1 female RJ-45 (shielded)
MTP T AAP Series	1 female RJ-45 on a 3" (7.6 cm) pigtail
MTP T 45 Series	(1) 8-pin spring force wire connector
MTP R AV, MTP R SV A	(1) 3.5 mm captive screw connector, 5 pole
MTP R AV/SV A RCA	1 pair of RCA female
Impedance	
MTP R AV, MTP R SV A	50 ohms unbalanced, 100 ohms balanced
MTP R AV/SV A RCA	50 ohms unbalanced
Gain error	± 0.1 dB channel to channel
Maximum level (Hi-Z)	>+3.3 dBu, balanced or unbalanced at 1%THD+N
Maximum level (600 ohm)	>+2.0 dBm, balanced or unbalanced at 1%THD+N

Specifications — MTP T Series, MTP R Series (continued)

General

Power	Supplied by an external power supply
External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1.0 A, regulated
Power input requirements	12 VDC, 0.2 A

NOTE *If the distance between the transmitter and receiver is less than 500' (150 m), you can connect a power supply to only one device in a transmitter/receiver pair. If the distance between transmitter and receiver is greater than 500' (150 m), connect a power supply to each device.*

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
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Rack mount

MTP T AAP Series	Yes, with optional rack panel, or furniture-/wall-mountable with optional AAP mounting plates
MTP T 45 Series	No, but mountable in a 45 mm x 45 mm opening in common European wall boxes, floor boxes, or cable channel systems
All other models	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or VersaTools® rack shelf, part #60-190-20 or 60-604-20. Also furniture-mountable with optional brackets.

Enclosure type	Metal
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Enclosure dimensions (Depths exclude connectors and cables.)

MTP T AAP Series

Faceplate	1.4" H x 3.5" W x 0.1" D (3.6 cm H x 8.9 cm W x 0.3 cm D) (double space AAP plate)
Transmitter	1.2" H x 2.75" W x 1.75" D (3.0 cm H x 7.0 cm W x 4.4 cm D)

MTP T 45 Series

Faceplate	1.8" H x 1.7" W x 0.8" D 45 mm H x 45 mm W x 20 mm D
Device	1.1" H x 1.6" W x 1.2" D 29 cm H x 41 mm W x 30 mm D

All other models	1.7" H x 2.2" W x 3.0" D (1U high, one-eighth rack wide) 4.2 cm H x 5.6 cm W x 7.6 cm D
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Product weight	1.0 lbs (0.5 kg)
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Shipping weight	3 lbs (2 kg)
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Vibration	ISTA 1A in carton (International Safe Transit Association)
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Listings (all models except MTP T AV45 and MTP T SVA 45)	UL, CUL
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Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
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MTBF	30,000 hours
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Warranty	3 years parts and labor
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NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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