

Specifications

MTP 15HD A Series

Video

Gain.....	Unity
Number/signal type	1 set of proprietary analog signals
Connectors	
MTP R 15HD RSA D	1 female RJ-45 on a pigtail
All other models	1 female RJ-45

Video input and loop through — transmitters

Number/signal type	
MTP T 15HD A.....	1 analog RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, or composite video 1 buffered RGBHV, RGBS, RGsB, RsGsBs local monitor loop through (includes ID bits)
MTP T 15HD A AAP, MTP T 15HD A D, MTP T 15HD A WM	1 analog RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, or composite video
Connectors	
MTP T 15HD A.....	2 female 15-pin HD
All other transmitters	1 female 15-pin HD
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 V to 1.45 Vp-p
Impedance	75 ohms
Horizontal frequency	15 kHz to 130 kHz
Vertical frequency.....	30 Hz to 150 Hz
Return loss	<-30 dB @ 5 MHz
DC offset (max. allowable)	250 mV

Video output — receivers (MTP RL 15HD A, MTP RL 15HD A SEQ, MTP R 15HD RSA D)

Number/signal type	
MTP R 15HD RSA D	1 analog VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs, HD component video, component video, S-video, or composite video
All other receivers	1 set of proprietary analog signals 1 analog RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, or composite video
Connectors	
MTP R 15HD RSA D	1 female 15-pin HD
All other receivers	1 female RJ-45 1 female 15-pin HD
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 V to 1.45 Vp-p
Impedance	75 ohms

Return loss	<-30 dB @ 5 MHz
DC offset	
MTP R 15HD RSA D	<±20 mV with input at 0 offset
All other receivers	<±35 mV with input at 0 offset
Skew compensation	62 ns
Maximum resolution	Up to 1920x1200 or 2048x1080 or 1080p at 300'
	Up to 1024x768 at 600'

NOTE: See the user guide for the maximum distances recommended for specific resolutions.

Sync

Input type (transmitters)	RGBHV, RGBS, RGsB, RsGsBs
Output type (receivers)	RGBHV, RGBS, RGsB, RsGsBs
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level (transmitter)	3.5 V to 5.5 Vp-p, unterminated
Output level (receivers)	4.0 V to 5.0 Vp-p, unterminated
Input impedance (transmitter)	573 ohms ±5%
Output impedance (receivers)	110 ohms
Max. input voltage (transmitter)	5.5 V p-p
Polarity	
Transmitter	Positive or negative (follows input polarity)
Receivers	Positive or negative (switch-selectable)

Audio — all models

Number/signal type	1 set of proprietary analog signals
Connectors	1 female RJ-45
Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ±1 dB
THD + Noise	0.15% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N	>70 dB at maximum output (unweighted)
Stereo channel separation	>60 dB @ 1 kHz
CMRR	>43 dB @ 20 Hz to 20 kHz

Audio input — transmitters

Number/signal type	1 stereo, unbalanced
Connectors	(1) 3.5 mm mini stereo jack
Impedance	>10k ohms, unbalanced
Nominal level	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level	+18 dBu, (unbalanced) at 1%THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio output — MTP T 15HD A AAP, MTP T 15HD A D, MTP T 15HD A WM local stereo output

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm direct insertion captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±1 dB channel to channel
Maximum level (Hi-Z)	>+23 dBu, balanced or unbalanced at 1% THD+N
Maximum level (600 ohm)	>+17 dBm, balanced or unbalanced at 1% THD+N

Audio output — receivers

Number/signal type	
MTP R 15HD RSA D	1 mono, balanced/unbalanced
All other receivers	2 mono, balanced/unbalanced
Connectors	
MTP R 15HD RSA D	(1) 3.5 mm captive screw connector, 5 pole (uses 3 poles)
All other receivers	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±1 dB channel to channel
Nominal level	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level	
MTP R 15HD RSA D	14 dBm, unbalanced at 1% THD+N
All other receivers	+18 dBu, unbalanced at 1% THD+N

Control/remote — external device (pass-through, unidirectional or bidirectional) — MTP R 15HD RSA D only

Serial control port input/output	1 set of proprietary signals on a female RJ-45 jack
Serial control port output/input	RS-232 via 3 poles of a 3.5 mm captive screw connector, 5 pole
Baud rates.....	Up to 38400 bps at up to 1000' (304.8 m) (Higher data rates and distances are possible. Performance varies based on baud rate and cable length.)
Protocol	Data bits = 5 – 8 Stop bits = 1 or 2 Parity = odd, even, none Flow control = XON, XOFF, none

NOTE: Protocol is mirrored between the transmitter and the receiver.

Serial control pin configuration..... Captive screw connector: 1 = Tx, 2 = Rx, 3 = GND

General

Recommended cable type	CAT 5/5e/6 (shielded or unshielded)
Power supply.....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power input requirements	12 VDC, 0.5 A
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
Cooling	Convection, no vents
Mounting	
Rack mount	
MTP T 15HD A, MTP RL 15HD A, MTP RL 15HD A SEQ	Yes, with optional rack shelf
Furniture or wall mount	
MTP T 15HD A, MTP RL 15HD A, MTP RL 15HD A SEQ	Yes, with optional under-desk mounting kit
MTP T 15HD A AAP	Yes, with optional AAP mounting faceplates that have double space high AAP opening
MTP T 15HD A D, MTP R 15HD RSA D	Yes, in a Decora®-style opening with a standard electrical wall box or Decora size mud ring
MTP T 15HD A WM	Yes, in a 1-gang opening
Pole mount	
MTP T 15HD A, MTP RL 15HD A, MTP RL 15HD A SEQ	Yes, with optional pole mounting kit
Enclosure type.....	Metal

Enclosure dimensions

MTP T 15HD A, MTP RL 15HD A, MTP RL 15HD A SEQ

1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide)
4.3 cm H x 10.9 cm W x 7.6 cm D
(Depth excludes connectors.)

Faceplates

MTP T 15HD A AAP 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 high AAP plate)

MTP T 15HD A D, MTP R 15HD RSA D

2.6" H* x 1.3" W x 0.1" D (6.6 cm H* x 3.3 cm W x 0.3 cm D)
(Fits the opening in a 1 gang, 4.4" H x 2.7" W Decora-style wallplate. Depth
excludes connectors.)
*Overall height is 4.1" (10.4 cm) including mounting tabs.

MTP T 15HD A WM 4.5" H x 2.8" W x 0.1" D (11.4 cm H x 7.1 cm W x 0.3 cm D) (1 gang)

Device

MTP R 15HD RSA D 2.75" H x 1.65" W x 1.3" D
(7.0 cm H x 4.2 cm W x 3.3 cm D)
(Depth excludes connectors.)

Other AAP, D, and WM models

2.7" H x 1.4" W x 1.4" D (6.9 cm H x 3.6 cm W x 3.6 cm D)
(Depth excludes connectors.)

Product weight 0.4 lbs (0.2 kg)

Shipping weight 2 lbs (1 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety CE, c-UL, UL

EMI/EMC CE, C-tick, FCC Class A, ICES, VCCI

Warranty 3 years parts and labor

NOTE: Specifications are subject to change without notice.

NOTE: All nominal levels are at $\pm 10\%$.

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