

Specifications

SMD 101

Decoder input

Number/signal type.....	1 H.264/AVC digital video and AAC audio over IP
Connectors	1 shielded RJ-45
Ethernet data rate	10/100/1000Base-T
Network file share protocols.....	CIFS/SMB (SMB 1.0, NT LM 0.12), NFS
Streaming protocols	
Pull streams.....	RTP/RTCP (RFC 3550), RTSP (RFC 2326), interleaved RTSP (RTP/RTSP), RTP/RTSP tunneled through HTTP, unicast or multicast
Push streams	MPEG-2 TS/UDP (ISO/IEC 13818-1), MPEG-2 TS/RTP (RFC 2250, IPTV-ID-0087, ETSI TS 102 034), Direct RTP (RFC 3984), SAP (RFC 2974), SDP (RFC 4566), Unicast or multicast
Stream discovery.....	SAP (RFC 2974), SDP (RFC 4145, RFC 4566)
Transport.....	TCP, UDP, multicast IGMPv2 (RFC 2236), IGMPv3 (RFC 3376, SSM (RFC 3569, 4607), or unicast
Container (if included).....	MPEG-2 TS (MPEG-2 part 1 or ISO/IEC 13818-1 or ITU-T Rec. H.222.0) MP4 (MPEG-4 part 14 or ISO/IEC 14496-14) including mp4, m4a, m4v file extensions and compatible containers using H.264 video and AAC or PCM audio WAV (containing LPCM audio)
Encoding	
Audio coding	AAC-LC (MPEG-2 part 7, MPEG-4 part 3, sub part 4 and part 14, mono or stereo audio, max 384 kbps), G.711 (ITU-T), G.726 (ITU-T ADPCM), PCM mono or stereo 16 kHz to 96 kHz, 16-bit to 32-bit
Video coding	MPEG-4 part 10 (AVC) H.264 BP, MP, HiP to level 4.2 (<40 Mbps over 1 second), MJPEG
Image file formats.....	BMP, JPG, PNG, TIFF up to 1920x1080 (TIFF files using JPEG compression are not supported)
Playlist formats.....	m3u, m3u8, pls, jspf, xspf

Video processing

Maximum pixel clock.....	165 MHz
Source rates	480p up to 1920x1080p @ 60 Hz
Source formats	Digital video, 4:2:2, 8-bit
Chroma subsampling.....	4:2:2 and 4:4:4
Latency.....	<500 ms glass to glass

Video output

Number/signal type.....	1 HDMI/DVI digital video
Connectors	1 female HDMI type A
Peripheral device power.....	200 mA max
Horizontal frequency	15 kHz to 100 kHz
Vertical frequencies	24 Hz to 75 Hz (pass-through)23.98 Hz, 24 Hz, 25 Hz, 29.97 Hz, 30 Hz, 50 Hz, 59.94 Hz, 60 Hz (decoder output)
Output resolutions.....	640x480, 800x600, 1024x768, 1280x720, 1280x724, 1366x768, 1600x1200, 1920x1200, 480p, 576p, 720p, 1080i, 1080p
Standards	DVI 1.0, HDMI 1.4 (HDCP 1.4 with HDMI input selected)

NOTE: Appropriate HDMI to DVI-D cables or adapters are required for DVI signal output.

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Audio processing

Gain.....	-6 dB unbalanced, 0 dB balanced
Frequency response	20 Hz to 20 kHz, ± 0.1 dB
THD + Noise	<0.02%, 20 Hz to 20 kHz at maximum output level (unweighted)
S/N	>100 dB, at maximum balanced output (unweighted)
Stereo channel separation.....	>90 dB @ 1 kHz
Crosstalk	≤ -100 dB, at 20 Hz to 20 kHz, fully loaded
Volume control	-100 dB to 0 dB (control 0-100 in 1 dB steps, default: -30 dB)

Audio output — Analog

Number/signal type.....	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Nominal level.....	+4 dBu
Maximum level (Hi-Z).....	+21 dBu balanced, +15 dBu unbalanced
Gain error.....	± 0.1 dB channel to channel

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV $\approx$ 2 dBu

Audio output — digital

Number/signal type.....	1 stereo, HDMI (embedded)
Connectors	1 female HDMI type A
Bit depths	16-bit or 24-bit
Sampling rate.....	32 kHz, 44.1 kHz, 48 kHz

NOTE: Frequency response is limited to 16 kHz with a sample rate of 32 kHz.

Control/remote

USB	
USB configuration ports	1 front panel female mini USB-B
USB standards	USB 2.0, high/full/low speed hosts
Serial control	
Serial control port	1 bidirectional RS-232: 1 rear panel 3.5 mm captive screw connector, 3-pole
Host control.....	Dual mode - host control (Extron SIS) or IP to serial pass-through (for display control), both bidirectional
Baud rate and protocol.....	300, 600, 1200, 1800, 2400, 4800, 9600 (default), 19200, 38400, 57600, 115200 baud, adjustable; 7 or 8 (default) data bits; 1 (default) or 2 stop bits; no parity (default), or odd, even, mark, or space parity; no flow control (default), or software flow control
Pin configuration.....	1 = Tx, 2 = Rx, 3 = GND
Ethernet control	
Ethernet host port	1 female RJ-45 connector
Ethernet data rate.....	10/100/1000Base-T
Supported protocols.....	ARP, Bonjour (mDNS), CIFS/SMB, DHCP, DNS, HTTP, HTTPS, ICMP (ping), IGMPv2 (RFC 2236), IGMPv3 (RFC 3376), IPv4, MIB-II (RFC 3416/17/18), NTPv4 (RFC 4330), RTCP, RTP, RTSP, SAP (RFC2974), SDP (RFC4566), SFTP, SMTP, SNMP V2 (RFC 1213), SNMP v2c, SSH, SSL, SSM (RFC 3569, 4607), TCP/IP, Telnet, TLS, UDP
Ethernet default settings	IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Default gateway = 0.0.0.0 DHCP = off
IR remote control	SMD 101 remote (optional), 38 kHz

Specifications • SMD 101 (Continued)

Program control	Extron Simple Instruction Set (SIS™) Extron DataViewer Microsoft® Internet Explorer®, Apple® Safari®, Mozilla® Firefox®, Google® Chrome™ (*Certain browser dependencies may apply)
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General

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
Power consumption	
Device	9.2 watts, 12 VDC
Device and power supply	11.0 watts, 100-240 VAC, 50-60 Hz
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, with vents
Thermal dissipation	
Device	30.1 BTU/hr
Device and power supply	36.3 BTU/hr
Mounting	
Rack mount	Yes, with optional rack shelf
Furniture mount	Yes, with optional under-desk mounting kit
Pole mount	Yes, with optional pole mount kit
Enclosure type	Metal
Enclosure dimensions	1.0" H x 8.75" W x 6.0" D (half rack wide) (2.5 cm H x 22.2 cm W x 15.2 cm D) (Depth excludes connectors.)
Product weight	1.2 lbs (0.5 kg)
Regulatory compliance	CE, C-tick, c-UL, UL, FCC Class A, ICES, KC, VCCI
Product warranty	3 years parts and labor
Everlast power supply warranty	7 years parts and labor

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

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

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