

Specifications

SMP 111

Video input

Number/signal type.....	1 HDMI digital video (HDCP content not supported)
Connectors	1 female HDMI type A
Horizontal frequency	15 kHz to 100 kHz
Vertical frequency.....	24 Hz to 75 Hz
Resolution range.....	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 640x480 to 1920x1200*
	*reduced blanking
Standards	DVI 1.0, HDMI 1.4a
Format	RGB and YCbCr digital video

Video processing

Digital sampling.....	8-, 10-, or 12-bits per channel, 165 MHz pixel clock (HDMI)
Digital processing.....	4:2:2, 8-bits per color
Compression	H.264/AVC (ITU H.264, ISO/IEC 14496-10) 4:2:0, 8-bit color
	Encoding profiles: High, Main, Baseline;
	Encoding levels: 4.1, 4.0, 3.2, 3.1, 3.0; configurable GOP
Bit rate.....	200 kbps to 10 Mbps
Bit rate control	Selectable (variable, constrained, or constant)
Latency.....	130 msec* (encode), 600 msec* (encode/decode)
	*Indicates minimum latency. Encoder, decoder, and network dependencies apply.

Video output

Number/signal type.....	1 H.264/AVC digital video over Ethernet
	1 HDMI digital video
Connectors	1 female RJ-45 (streaming)
	1 female HDMI type A
Power for active cables	1.1 W max. for the HDMI port
Scaled resolution	HDMI output/record: 480p, 720p, 1080p, 512x288, 1024x768, 1280x1024
	Stream: 480p, 720p, 1080p, 512x288, 1024x768, 1280x1024
Frame rate	Up to 30 fps for all output rates
Formats	H.264/AVC (Profile type: High, Main, Baseline. Profile level: 4.1, 4.0, 3.2, 3.1, 3.0)

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

Recording and storage

File system for USB storage.....	FAT32, NTFS, VFAT long file name extensions, EXT2, EXT3, EXT4
File types	H.264 and AAC in an MP4 container, M4A, JPEG, JSON, XML
File transfer protocols.....	FTP, SFTP, CIFS
Network file share protocols.....	CIFS/SMB, NFS
Resolution.....	480p, 720p, 1080p, 512x288, 1024x768, 1280x1024
Frame rate	Up to 30 fps for all output rates
Internal storage capacity	32 GB SDHC
External USB ports	1 (front panel), 1 (rear panel), USB 2.0 (max. current 1.5 A)
Font file format.....	(TrueType) TTF, (OpenType) OTF

Audio input

Analog	
Number/signal type	1 stereo (balanced or unbalanced)
Connectors	(1) 3.5 mm captive screw connectors, 5-pole
Digital	
Number/signal type	1 stereo, digital de-embedded from HDMI
Connectors	1 female HDMI type A
Impedance.....	>10k ohms unbalanced, >20k ohms balanced
Nominal level.....	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms), adjustable via input gain
Maximum level	+18 dBu, (balanced or unbalanced)
CMRR.....	>70 dB @ 20 Hz to 20 kHz
Input gain adjustment.....	-18 dB to +24 dB, 0.1 dB steps, adjustable per input

Audio processing

Sampling rate.....	16 bit, 48 kHz or 44.1 kHz sampling
Compression	AAC-LC MPEG-4 (ISO/IEC 14496-3:2005)
Bit rate.....	80 kbps to 320 kbps, stereo

Audio output – digital

Number/signal type.....	1 stereo, HDMI (re-embedded audio) 1 AAC-LC digital audio over Ethernet
Connector.....	1 female HDMI type A 1 female RJ-45

Communication

USB	
USB configuration port	1 front panel female mini USB B
Mouse and keyboard port	Connect via any USB ports on SMP 111.
USB control port	Connect to optional accessory RCP 101.
USB standards	USB 1.1, USB 2.0, high/full/low speed hosts
Serial control	
Serial control port	1 bidirectional RS-232, rear panel 3.5 mm captive screw connector, 3-pole
Host control.....	Host control (Extron SIS), bidirectional
Protocols.....	Data bits: 7 or 8 (default) Stop bits: 1 (default) or 2 Parity: odd, even, or no (default) Flow control: no flow control (default)
Baud rates.....	9600 (default), 19200, 38400, 57600, 115200
Serial control pin configurations.....	1 = Tx, 2 = Rx, 3 = Gnd
Remote power	(1) +12 VDC power on 3.5 mm, 2-pole captive screw connector 1.0 A max
Ethernet control	
Ethernet host port	1 female RJ-45
Ethernet data rate.....	10/100/1000Base-T, half/full duplex with autodetect
Maximum Transmission Unit	68-1500 MTU, adjustable
Protocols	
Streaming	Pull: RTP/RTCP (RFC 3550), RTSP (RFC 2326), Interleaved RTSP (RTP/RTSP), RTP/RTSP tunneled through HTTP unicast or multicast Push: MPEG2-TS/UDP* (ISO/IEC 13818-1), MPEG2-TS/RTP* (RFC 2250, IPTV-ID-0087, ETSI TS 102 034), Direct RTP (RFC 3984), SAP (RFC2974), SDP (RFC4566), unicast or multicast, RTMP, RTMPS
Transport	TCP, UDP, multicast IGMPv3 (RFC 3376) or unicast
All supported	IGMPv3 (RFC 3376), IP, UDP, SSL, DHCP, HTTP, HTTPS, RTP, RTSP, SNMP V2 (RFC 1213), SAP (RFC2974), SDP (RFC4566), QoS (RFC 2474), NTPv4 (RFC 4330)

Specifications • SMP 111 (Continued)

Ethernet default settings	IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Default gateway = 0.0.0.0 DHCP = off
Program control	Extron Simple Instruction Set™ (SIS™) Extron DataViewer, Microsoft® Internet Explorer®, Apple® Safari®, Mozilla® Firefox®, Google® Chrome™ (*Certain browser dependencies may apply.)

NOTE: *Indicates that portions of the RFC and other standards may apply.

USB device ports

Number/signal type	(1) 3-port, USB hub
Connectors	3 female USB 2.0 type A (1 front panel and 1 rear panel for storage, 1 rear panel for control)
Maximum built-in USB HUBs	1
Minimum built-in USB HUBs	1
Available USB power	One port (selectable) with 1.5 A, remaining two with 0.5 A

General

Power supply	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption	23 watts typical
Ambient 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	Fan, air flow front to rear
Thermal dissipation	50 BTU/hr
Mounting	
Rack mount	Yes, with optional rack shelf
Enclosure type	Metal
Enclosure dimensions	1.66" H x 8.68" W x 9.5" D (1U high, half rack wide) (4.2 cm H x 22.1 cm W x 21.6 cm D) (Depth excludes connectors.)
Product weight	2.5 lbs (1.1 kg)
Regulatory compliance	CE, C-tick, c-UL, FCC Class A, ICES, UL, VCCI Complies with the appropriate requirements of RoHS and WEEE.

NOTE: CE and FCC testing is conducted with STP (shielded, twisted pair) cable.

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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