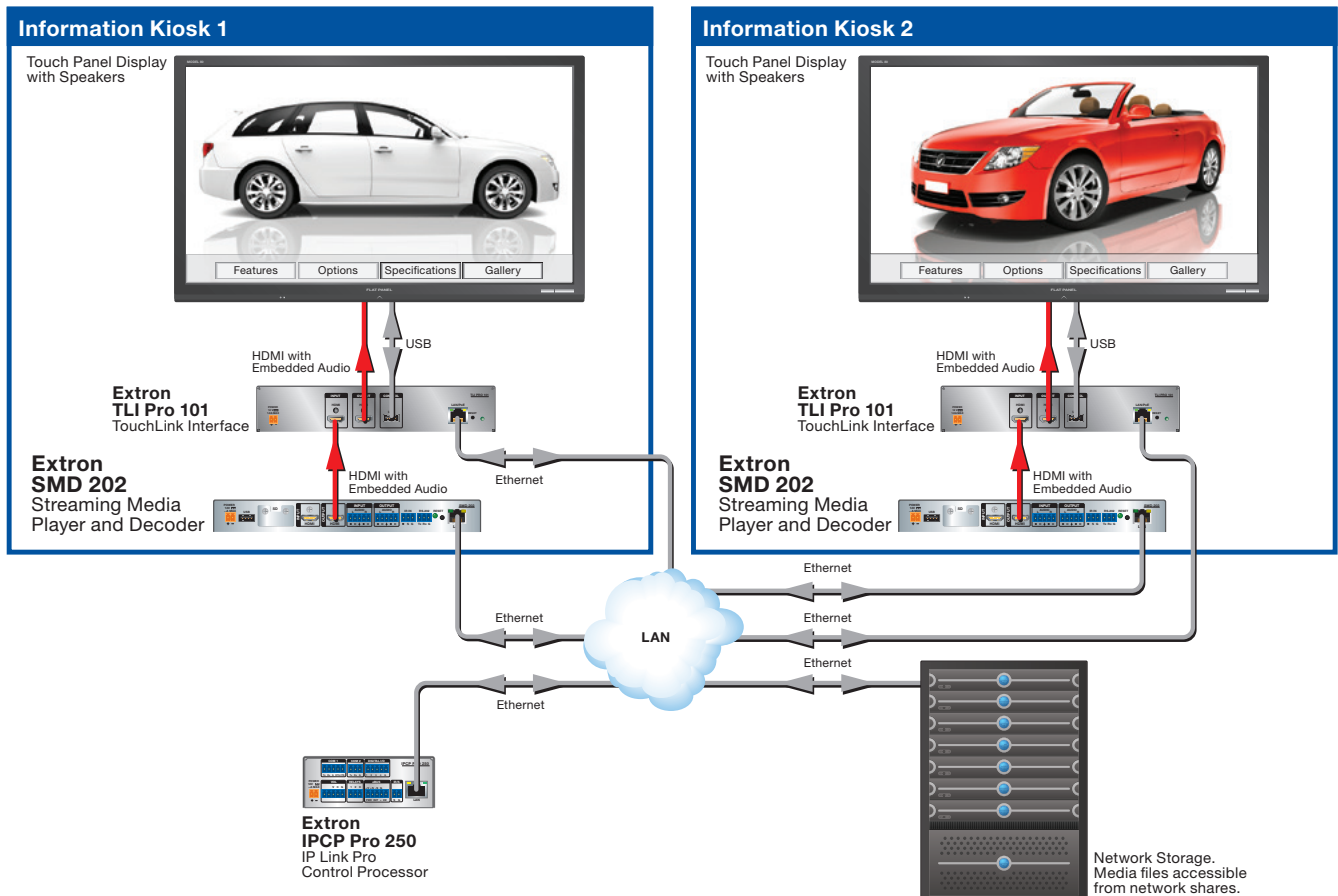


# Applications

## MEDIA PLAYER FOR PROMOTIONAL OR EDUCATIONAL KIOSKS

The SMD 202 is ideal for use as a media player in informational kiosks found in museums, visitor centers, and show rooms. Shown below, the SMD 202 plays back marketing productions for various automobiles found in the showroom. These productions are presented on a flat panel display with an embedded touch surface. An Extron TLI Pro 101 TouchLink interface produces a user menu, combines it with video from the SMD 202, and presents it on the flat panel. Users select content by touching the flat panel directly. The IPCP Pro 250 issues control commands to the SMD 202, selecting various playlists or media files from the programmed channel list. Audio embedded in the HDMI signal is supplied from the SMD 202 through the TLI Pro interface to the flat panel display and its embedded speakers. Commonly used media files are stored in the SMD 202 on an internal SD card, and new or special event content can be accessed from network shares on a server.



# Specifications

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
USB host	USB 2.0 (500 mA max). Speed and capacity limited by storage device.
Connector	1 rear panel USB type A
SD Card Slot	SD, SDHC to speed class 10 / UHS-1 (10-25 MB/sec). FAT or FAT32 (preferred) file system.
<b>Streaming protocols</b>	
Pull streams	RTP/RTCP (RFC 3550), RTSP (RFC 2326), interleaved RTSP (RTP/RTSP), RTP/RTSP tunneled through HTTP
Push streams	MPEG-2 TS/UDP (ISO/IEC 13818-1), MPEG-2 TS/RTP (RFC 2250), Direct RTP (RFC 3984)
Stream discovery	SAP (RFC 2974), SDP (RFC 4145, RFC 4566)
Transport	TCP, UDP, RTP, multicast 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*, WAV (containing LPCM audio)
<b>NOTE:</b> *MP4 compatible containers are only supported with H.264 video and AAC or PCM audio.	
<b>Encoding</b>	
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, G.726, MPEG-1 Layer I, II, III (mp3), AC-3 audio up to 320 kbps, 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), MPEG-2 (ISO/IEC 13818-2 / ITU-T Rec H.262) up to 19.2 Mbps, MJPEG
Timed Text	In stream formats: MPEG-4 Timed Text (format: FOURCC_sbt1, standard: ISO/IEC 14496-17:2006) 3GPP Timed Text (format: FOURCC_tx3g, standard: 3GPP TS 26.245) WebVTT (format: FOURCC_wvtt, standard: ISO/IEC 14496-30:2014) Stand alone text file formats: SRT with support for international languages. Support for user supplied TTF and OTF fonts.
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
Seamless playback	using m3u8 playlists and MPEG-2 TS or "fast start" MP4 clips

VIDEO INPUT AND PASS-THROUGH		
Number/signal type	1 HDMI/DVI digital video	
Connector	1 female HDMI type A	
Resolution range	640x480 @ 60 Hz through 1920x1200 @ 60 Hz includes 480i, 576i, 480p, 576p, 720p, 1080i, 1080p, 2K	
Standards	DVI 1.0, HDMI 1.4, HDCP	
<b>VIDEO PROCESSING</b>		
Maximum pixel clock	165 MHz	
Source rates	480p up to 1920x1080p @ 60 Hz	
Chroma subsampling	4:2:2 and 4:4:4	
Latency	<500 ms glass to glass	
<b>NOTE:</b> *Available space varies based on Firmware version. *At least 64 MB of free space is required for Firmware updates.		
<b>GENERAL</b>		
Power supply	External (included) Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts	
Power consumption		
Device	13.2 watts, 12 VDC	
Device and power supply	15.8 watts, 100-240 VAC, 50-60 Hz	
Thermal dissipation		
Device and power supply	52.6 BTU/hr	
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, VCCI	
Product warranty	3 years parts and labor	
Everlast power supply warranty	7 years parts and labor	
<b>Model</b>	<b>Version Description</b>	<b>Part number</b>
SMD 202	H.264 Decoder and Player	60-1306-01
SMD 202 Remote	Handheld IR Remote Control for SMD 202	70-1059-01
SMD 101	H.264 Decoder	60-1305-01
SMD 101 Remote	Handheld IR Remote Control for SMD 101	70-1058-01

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

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