

## SCP2100 Receiver Decoder Gateway



### OVERVIEW

The SCP 2100 is a receiver/decoder for collecting signals and backhauling almost any video across the internet.

Utilizing the power and exceptional video quality of ASIC-based encoding and transcoding, paired with today's latest internet delivery protocols; the SCP 2100 makes it effortless to acquire feeds that may have previously been too costly or difficult.

Whether it's off-air broadcast feeds, sporting events, public service addresses or anything else you can think of, it's now as easy as the SCP 2100 and an internet connection.

### Sporting Event Backhaul

Whether doing onsite or remote production, the SCP 2100 can easily receive directly from cameras or production switchers. Perform encoding or transcoding and backhaul over any internet connection with any of today's most popular internet delivery protocols, including Zixi, SRT or RIST.

### KEY FEATURES

- Encode SD-SDI, HD-SDI and HDMI inputs
- Video transcoding or rate-shaping of 8VSB/QAM-B\*, ASI and MPEG/IP inputs to MPEG-2 or H.264
- PID-filter or service filter SPTS or MPTS inputs\*
- Support for all of today's most common internet delivery protocols, including Zixi, SRT and RIST\*
- Pair with a Sencore DMG 7000 for a low-cost end-to-end backhaul
- Simple and intuitive webUI for configuration and monitoring
- Automation and remote configuration ready
- Small form factor - 1/3<sup>rd</sup> RU wide and 1RU tall
- Inputs:
  - SD/HD SDI
  - ASI
  - HDMI
  - 8VSB RF
  - QAM RF (QAM 64 & QAM 256)
  - IP UDP or RTP
- Outputs:
  - MPEG/IP
  - SRT
  - RIST
  - Zixi

### Models

SEP-2101

SEP-2102

SEP-2110

SEP-2111

### Inputs

8VSB, ASI, MPEG/IP

ASI, MPEG/IP

ASI, SDI, HDMI, MPEG/IP,  
Encode/Transcode

8VSB, ASI, SDI, HDMI,  
MPEG/IP, Encode/Transcode

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## SPECIFICATIONS SCP2100 Receiver Decoder Gateway

<b>Input Interfaces</b>		<b>Audio Processing</b>	
SD/HD-SDI:	1x 75Ω BNC SDI (shared with ASI) SMPTE 259M SMPTE 292M	Codecs:	Dolby Digital (AC-3) Dolby Digital Plus (E-AC-3) AAC HE-AAC MPEG-1 L2 2x audio services/PIDs
Digital Video:	1x HDMI Type A Connector with positive screw retention	Number of Services:	2x audio services/PIDs
Supported Version:	1.4b	Ancillary Data Pass-through:	AFD (SMPTE 2016)* Closed Captions (CEA-708) SCTE 104 to 35
Copy Protection:	HDCP Compliant	TS Manipulation*	
8VSB/QAM-B:	1x 75Ω F-Type	PID/Service Filtering:	Remove/renumber PIDs and services
Frequency Range:	50-1000 MHz	Table Regeneration:	PAT, PMT
Sensitivity:	-34 to +40 dBmV (A74 Compliant)	Management:	
8VSB Standard:	ATSC A/53E	Connector: Protocols:	1x RJ-45 10/100/1000 Auto Negotiating
8VSB Channel Plans:	Broadcast	User Interfaces:	HTTP(S), SNMP and Web API Full control via web GUI Full control via intuitive front panel*
QAM Standard*:	ITU Annex B/SCTE DVS-031	Automation Interfaces:	Full status and control via SNMP ZEN Master Configuration and Control* SRT Hub Configuration and Control* Configurable SNMP traps Web services API Syslog message logging
QAM Channel Plans*:	FCC, IRC, HRC QAM	Firmware Updates:	Via Web GUI
Constellations:	QAM64, QAM256		
ASI:	1x 75Ω BNC ASI (shared with SDI)		
Supported Bitrate:	250 Kbps to 160 Mbps TS		
IP:			
Physical Interface:	1x RJ45, 10/100/1000 Auto-Negotiating UDP or RTP		
Input Format:	Constant Bitrate SMPTE 2022-2/CoP3 FEC		
IP Encapsulation:	1 to 7 TS Packets per IP Packet		
Protocols:	Unicast & Multicast		
IGMP compatibility:	Version 1, 2 & 3		
TS Bitrate:	250 Kbps to 50 Mbps		
<b>Output Interfaces</b>		<b>Dimensions/Power</b>	
IP:		Height:	1 RU, 1.72" (44mm)
Physical Interface:	1x RJ45, 10/100/1000 Auto-Negotiate	Width:	1/3 RU, 5.69" (144.5mm)
Output Format:	UDP or RTP Constant Bitrate SMPTE 2022-2/CoP3 FEC	Depth:	7.5" (190.5mm)
IP Encapsulation:	1 to 7 TS Packets per IP	Power:	100-240 VAC 50/60 Hz
Protocols:	Packet Unicast & Multicast Zixi w/ ZEN Master Integration SRT w/ SRT Hub Integration RIST	Supplies:	1x AC Internal
IGMP compatibility:	Version 1, 2 & 3	Connector:	IEC 320 C14
TS Bitrate:	250 Kbps to 50 Mbps		
<b>Video Processing</b>		<b>Environmental Conditions</b>	
Input Codec/Profile:	MPEG-2 up to MP@HL H.264 up to HP@L4.1	Operating Temperature:	32° to 122° F (0° to 50° C)
Resolutions:	1080p@23.98, 24, 25, 29.97, 30, 59.94, 60 1080i@25, 29.97, 30 720p@23.98, 24, 25, 29.97, 30, 50, 59.94, 60 576p@50 576i@25 480p@30, 60 480i@29.97, 30	Cooling:	Software regulated fan
Bitrate:	0.5 to 15 Mbps	Storage Temperature:	-40° to 149° F (-40° to 65° C)
Output Codec/Profile:	MPEG-2 up to MP@HL H.264 up to HP@L4.1	Relative Operating Humidity:	<95% (non-condensing)