SCP 2100
Signal Collection Platform

OVERVIEW

The future of signal collection is here today! The Sencore SCP 2100 is a cost-effective and easy to deploy unit for acquiring and backhauling nearly any video signals 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.

APPLICATIONS

Local Off-air Signal Collection

Gone are the days of deploying racks of equipment to collect and backhaul 8VSB terrestrial signals. With the small form factor SCP 2100 and an internet connection, what was once a large undertaking is now a plug-and-play operation.

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 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 - 1/3rd RU wide and 1RU tall

SPECIFICATIONS

Signal Collection Platform SCP 2100

Input Interfaces

SD/HD-SDI:	1x 75Ω BNC SDI (shared with ASI) SMPTE 259M SMPTE 292M
Digital Video:	1x HDMI Type A Connector with positive screw retention
Supported Version:	1.4b
Copy Protection:	HDCP Compliant
8VSB/QAM-B:	1x 75Ω F-Type
Frequency Range:	50-1000 MHz
Sensitivity:	-34 to +40 dBmV (A74 Compliant)
8VSB Standard:	ATSC A/53E
8VSB Channel Plans:	Broadcast
QAM Standard*:	ITU Annex B/SCTE DVS-031
QAM Channel Plans*:	FCC, IRC, HRC QAM
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
Input Format:	UDP or RTP Constant Bitrate or Null-Stripped 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

Output Interfaces

IP:	
Physical Interface:	1x RJ45, 10/100/1000 Auto-Negotiate
Output Format:	UDP or RTP Constant Bitrate SMPTE 2022-2/CoP3 FEC
IP Encapsulation:	1 to 7 TS Packets per IP Packet
Protocols:	Unicast & Multicast Zixi w/ ZEN Master Integration SRT w/ SRT Hub Integration RIST
IGMP compatibility:	Version 1, 2 & 3
TS Bitrate:	250 Kbps to 50 Mbps

Video Processing

Input Codec/Profile:	MPEG-2 up to MP@HL H.264 up to HP@L4.1
Resolutions:	1080p@25, 29.97, 30 1080i@25, 29.97, 30 720p@50, 59.94, 60 576i@25 480i@ 29.97
Bitrate:	0.5 to 15 Mbps
Output Codec/Profile:	H.264 up to HP@L4.1

Audio Processing

Codecs:	Dolby Digital (AC-3) Dolby Digital Plus (E-AC-3) AAC HE-AAC MPEG-1 L2
Number of Services:	2x audio services/PIDs
Ancillary Data Pass-through:	AFD (SMPTE 2016)* Closed Captions (CEA-708) SCTE 35/104*

TS Manipulation*

PID/Service Filtering:	Remove/renumber PIDs and services
Table Regeneration:	PAT, PMT

Management:

Connector:	1x RJ-45 10/100/1000 Auto Negotiating
Protocols:	HTTP(S), SNMP and Web API
User Interfaces:	Full control via web GU Full control via intuitive front panel*
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
Firmware Updates:	Via Web GUI

Dimensions/Power

Height:	1 RU, 1.72" (44mm)
Width:	1/3 RU, 5.69" (144.5mm)
Depth:	7.5" (190.5mm)
Power:	100-240 VAC 50/60 Hz
Supplies:	1x AC Internal
Connector:	IEC 320 C14

Environmental Conditions

Operating Temperature:	32° to 122° F (0° to 50° C)
Cooling:	Software regulated fan
Storage Temperature:	-40° to 149° F (-40° to 65° C)
Relative Operating Humidity:	<95% (non-condensing)

Ordering Information

SCP 2111	8VSB, ASI, MPEG/IP Gateway, SDI, HDMI Encode/Transcode
SCP 2110	ASI, MPEG/IP Gateway, SDI, HDMI Encode/Transcode
SCP 2101	8VSB, ASI, MPEG/IP Gateway
SCP 2102	ASI, MPEG/IP Gateway

**Future release*