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ARD Series ATSC 3.0 Receiver Decoder - ARD3100 1 Program / ARD3400 4 Program

OVERVIEW

Sencore's new ARD 3000 series of ATSC 3.0 receiver decoders enables users to decode 1-channel (ARD 3100) or 4-channels (ARD 3400) in a 1RU platform. Perfectly suited for re-encode or confidence monitoring applications in existing distribution systems.

The ARD 3000 series includes an ATSC 3.0 RF input for receiving the new-format streams. Tune to a single PLP and decode up to 4 services. Decodes streams are output via 4x3G-SDI for UHD services or 3G/HD/SD-SDI for HD and SD services. Unit configuration is done using the intuitive web GUI or through APIs like Rest and SNMP.

APPLICATIONS

- ATSC 3.0 Re-encode
  Receive ATSC 3.0 RF signals, decode and output SDI to existing encoding work. ows. Carry ATSC 3.0 channels in existing distribution systems.
- ATSC 3.0 Confidence Monitoring
  Receive ATSC 3.0 RF signal and decode UHD, HD and SD services to SDI for monitoring on broadcast monitors.

ORDERING INFORMATION

- ARD 3100
  Single RF Input, Single Program, Single PLP
  UHD/HD/SD, 4x SDI Outputs, 1 Genlock Output
- ARD 3400
  Single RF Input, Four Program, Single PLP
  UHD/HD/SD, 4x SDI Outputs, 1 Genlock Output
  (NOTE: Cannot be upgraded from ARD 3100)

SPECIFICATIONS

INPUTS

Input Type:	One F Female ATSC 3 .0 (Single, Physical Layer Protocol)
RF Frequency Range:	42 to 870 MHz
RF Sensitivity:	-20 to 30 dBmV
Container Formats:	MPEG -DASH via ROUTE

DECODER

Video Codec:	HEVC M422-10P@HT up to L5.1
Video ES Bitrates:	ARD 3100 up to 70Mbps, ARD 3400 up to 15Mbps
Output Formats:	3840x2160 @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 1920x1080p @ 23.97, 24, 25, 29.97, 30, 50, 59.94, 60 1920x1080i @ 25, 29.97, 30 1280x720p @ 50, 59.94, 60 720x480i @ 29.97
Number of Audio Services:	8 audio services (16 audio channels) per video
Audio Codecs Supported:	Dolby AC-4, AAC
Output Formats:	Digital Pass-through PCM (Downmixed for 5.1 Sources)

OUTPUT

Ports:	4x 3G-SDI, 75-Ω HD-BNC 1x Genlock Input, 75-Ω HD-BNC
Physical layer:	HD-SDI: SMPTE 292M 3G-SDI: SMPTE 424M
Quad Link 3G-SDI:	Two-Sample Interleave

MANAGEMENT

Connector:	RJ-45 10/100 - Auto Negotiating
Protocols:	HTTP and SNMP
User Interfaces:	Full control via web GUI
Automation Interfaces:	Full status and control via SNMP Con. gurable SNMP traps Restful API Syslog message logging
Firmware Updates:	Via web GUI

Physical dimensions and operating conditions dependent on hardware selection.

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