

XDS-PRO4S

Digital Media Receiver

The XDS-PRO4S digital audio receiver allows radio stations to receive audio broadcasts from distributed satellite or IP networks for live broadcasting or storage for later play-out. The unit provides targeted advertising capabilities, allowing radio networks to play localized ads and other content relevant to specific locations. In addition to copy splitting, the cost-effective XDS-PRO4S supports audio insertion and digital live recording with playback to delay time-zone feeds. It also has advanced station automation interfaces via IP, RS-232, relay closures, OPTOs and commands to seamlessly interface with automation systems. Advanced scheduling capabilities allow networks and stations to automatically switch between live and pre-recorded channels and programs.

Features

- Low bitrate down to 100 Ksps (optional), 256 Ksps standard
- Can fit in a 150 kHz carrier (optional), 400 kHz standard
- DVB® S/S2 - QPSK/8PSK
- MPEG-2, AAC-LC, HEv1 & HEv2*
- Four balanced analog outputs
- Four digital AES/EBU outputs
- One IP AES67 output (four streams)
- 256-GB M2SATA solid-state drive
- Store & forward file delivery
- Receives live IP streams
- Locally input LIDs, liners & spots
- Import/export content locally
- Store & forward

* Certain limits apply



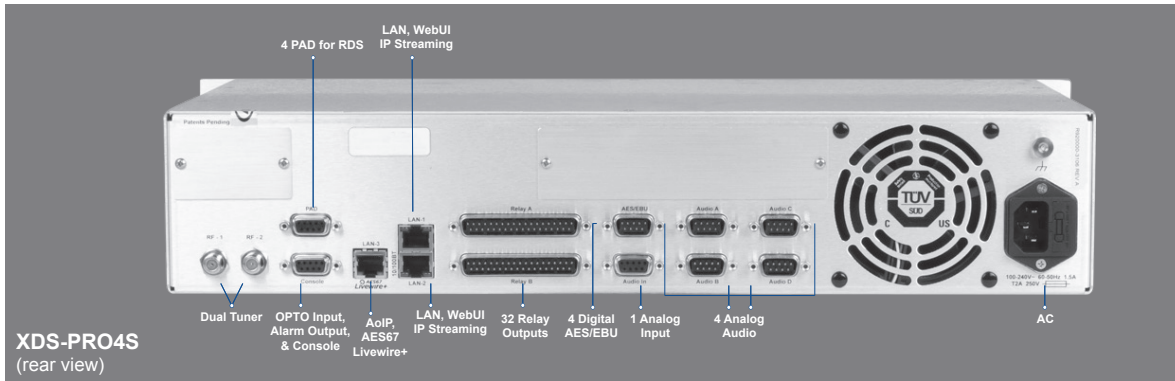
Patents Pending

XDS-PRO4S
(front view)

Applications

- **Live Broadcasting:** News, talk & sports
- **Distribute Over Satellite or Internet:** Live or pre-recorded
- **Data & File Delivery:** Over satellite or Internet with confirmation
- **Spot/Program Insertion:** Localized advertising & programming

- Full AoIP output support (AES67, Livewire+)
- Audio input for network automation
- Four PAD output ports for RDS
- 32 relay closures (hard, RS-232 & IP)
- Program station automation via WebUI
- Three 100BaseT Ethernet ports w/VLAN
- DHCP, NFS, HTTP & Telnet
- Alarms via relay closure, email & SNMP
- In-field firmware upgradable
- Record & insertion of media
- Remote control via Xpress or XDS
- For satellite or streaming networks
- Cost-effective



Network Audio Solutions

Broadcast radio networks enjoy unprecedented audio quality, centralized programming & control of receivers, live & stored programs, localized advertising & a cost-effective end-to-end solution.

Network Management

Each XDS-PRO4S unit can be fully controlled by the ATX XDS Network Management System. Combined with XDS, this feature-rich system solution provides closed loop management of each receiver, including digital rights management, live authorizations, content download/local playback, firmware updates and remote storage management. Additionally, receiver health, as-run logging & performance attributes can be collected and forwarded back to the XDS.

Proven Solutions

Live Broadcasts Over Satellite or IP Networks

The XDS-PRO4S provides live decoding of broadcast media. It can receive MPEG/DVB via live satellite or IP networks (Internet). Each live stream can be routed to any of the balanced outputs. Additionally, each live stream can be digitally mixed with another live stream or a stored playback file for maximum flexibility.

Store & Forward & File Delivery

Media files can be stored into internal SSD, HDD, or an external NAS.

Copy Spot Insertion

Audio files residing on the mounted device can be inserted into live or recorded media being output via the MPEG decoder. This feature allows localization of live, live stored, or pre-recorded programming.

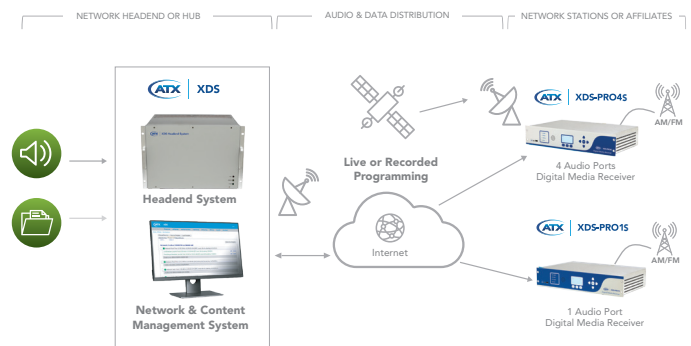
Advanced Scheduling

Networks or affiliates can schedule live, delayed, or store & forward programs through a friendly web-based interface.

Live Audio Record/Playback (Time Shifting)

The XDS-PRO4S is capable of recording and playing back any broadcast channel. This enables the network/station to time shift content to the proper air-prime. Content can be recorded into its local or networked storage.

XDS Platform Overview



Broadcasting Live Over Satellite or Internet

Automation Ready

The XDS-PRO4S is equipped with up to 16 programmable Form-A relays. These relays can be actuated via network control or ancillary data channels. This provides a legacy interface for many existing radio station automation systems. Additionally, opto inputs provide automation directly into the XDS-PRO4S receiver. A balanced audio input is also available to allow station bypassing by network.

Accountability

Each XDS-PRO4S logs its activity. The network can decide what events are logged and how often they are reported to the network. This includes receiver performance, spot play, live play, time-zone delays and all other programming controls. The optional off-air monitor module can also record & tag content received via AM/FM signals.

Off-Air Verification Module (Optional – XDS-AMR-MOD)

The network can watermark all audio content that plays out of the receiver. Watermarks include serial number and port of the receiver, program or commercial ID and station ID.

The XDS, AMR module in the receiver can record all the off-air content, detect spots and report to the XDS.

Specifications

XDS-PRO4S

RF INPUT	
FREQUENCY RANGE	950-2150 MHz
DATA RATES	256 Ksps to 40 Msps (DVB-S) 1 Msps to 40 Msps (DVB-S2) 100 Ksps (optional)
CARRIER LEVEL	-20 dBm to -60 dBm
CONNECTOR	2 F-type Female
IMPEDANCE	75 Ω
INB DC POWER	+18 VDC @ 500mA
MODULATION	QPSK (DVB-S) / 8PSK (DVB-S2)
FEC	Per DVB-S/DVB-S2 Specifications
IP INTERFACES	
LAN	3 10/100Base T RJ45
CONTROL INTERFACES	
NETWORK MANAGEMENT	Via Satellite or TCP/IP
WEB	HTTP, Telnet on 10/100BaseT RJ45
SERIAL	Console RS232C, DB9-F
INPUT PORTS	
AUDIO	1 Balanced (600 Ω) DB9-F 1 AES/EBU DB9-F
OPTO	4 Form-A DB9-F
OUTPUT PORTS	
AUDIO	4 Balanced Output (600 Ω) DB9-M 4 Digital DB9-AES/EBU 4 Digital IP-AES 67 (Livewire+) 24 dB Audio Output Level
PAD	RS232C DB9-F
RELAYS	32 Form-A, NO, DB37-F
AUDIO DECODERS	MPEG-1 Layer II & AAC LC Status Alarm Out
MECHANICAL & ENVIRONMENTAL	
INPUT VOLTAGE	90 VAC to 240 VAC (50/60 Hz)
POWER CONSUMPTION	150W Max.
DIMENSIONS	3.5"H x 19.0"W x 12.0"D (8.89H x 48.26W x 30.5D cm)
MOUNTING	2RU, 19" Rack Mount
WEIGHT	8.0 lbs (3.6 kg)
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)

Ordering Information

Part Number	Description
XDS-PRO4S	Audio Digital Media Receiver
XDS-LBR	Low-Bitrate 100-Ksps Module
XDS-AMR-MOD	AM/FM/HD Receiver Module



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10814 W. 78th St, Shawnee, KS 66214

Tel: 913.375.1100 | Toll Free: 800.932.1555 | sales@sateng.com