

# STR Pro Audio™ Receivers

## DVB-S/S2 Satellite Receivers for Audio Distribution

### Applications

- FM networks
- Cable networks
- DAB, DMB, DRM networks

### Features

- Low Power and fanless
- AAC Support
- MPEG Layer II
- Multiple Audio Decoders (1,2 or 3)
- 8 Relays
- DVB-S/S2
- Transport Stream over IP
- ASI (optional) input/output
- Head phone jack
- ASYNC ports
- AES/EBU output
- XLR audio outputs

The STR Pro Audio Receivers are designed specifically for cost effective audio distribution over satellite to FM, cable, DAB, DMB and DRM networks.

The STR Pro Audio is a DVB-S/S2 satellite receiver which fit in a wide variety of radio distribution applications like FM, DAB, DMB and DRM networks. The STR Pro Audio is a very efficient 1 U solution for multiple audio channel distribution. There are two base models: One Decoder or Three Decoders.

The STR Pro Audio - 1 comes standard with a Gbit IP interface. It can be configured with ASI or ETI (G.703) interfaces. The STR Pro Audio - 1 supports two separate decoded stereo audio channels both with balanced analog and digital outputs.

The STR Pro Audio - 3 is a satellite receiver with three separate audio decoders with balanced analog and digital outputs and three separate data channels.

### Future Proof Front-End

The STR Pro Audio can be used in SCPC and MCPC applications with a default minimum symbol rate of 256 kSymbols/s over DVB-S/S2.

### DVB Compliant Audio

The audio decoder DSP supports a wide variety of codec technologies, from legacy MPEG Layer II to MPEG-4 AAC.

### Software Upgradeable

The available software options for the STR Pro Audio can be activated with a license key at any time, whenever you need the extra functionality.

### Web Browser Interface

Local or remote configuration of the STR Pro Audio is available using a standard browser from anywhere with IP connectivity.

### Flexible and Configurable

The STR Pro Audio offers the most flexible solution with all the available interfaces and can be used in many applications. Using DVB-S2 and an extreme low symbol rate, satellite capacity costs will decrease significantly.

### A Solution for Every Network Application

The STR Pro Audio offers a variety of solutions for network applications. Program associated data (like RDS) is delivered in sync with the audio over available data ports. The STR Pro Audio - 1 supports up to 8 general purpose switchable contacts which are controlled by their respective inputs at the encoder. Besides decoding audio and the associated data the STR Pro Audio - 1 can also feed the received multiplex content to ASI and/or IP networks simultaneously.

### Wide Variety of Software Options

A second audio channel, very low symbol rate support, AAC and audio look-ahead-limiting are in the field upgradable functions.

# TECHNICAL SPECIFICATIONS—STR Pro Audio Receivers

MODEL	DESCRIPTION	APPLICATION
STR Pro Audio - 1	Supports 1 audio decoder, 1 RS-232 data output port, TSoIP input/output and 8 GPOs by default, licensed upgradable 2nd audio decoder and RS-232 output port available	Audio distribution
STR Pro Audio - 1-ASI	With additional ASI in/out on BNC	Audio distribution ASI networks (input/output)
STR Pro Audio - 3	3 audio channels with 3 data channels	Audio distribution
<b>SOFTWARE OPTIONS</b>		
AAC Decoding	MPEG-4 AAC	
Audio Limiter	Available for STR Pro Audio - 1, STR Pro Audio - 3	
Very Low Symbol Rate	Minimum 100 KS/s (DVB-S). Available for STR Pro Audio - 1 (Check for availability)	
Second Audio Channel	MPEG-1 Layer II and RS-232. Available for STR Pro Audio - 1	
Transport Stream over IP	Available for STR Pro Audio - 1	

SATELLITE INPUT	
Complies to	ETS 300421 (DVB-S) ETSI EN 302 307 (DVB-S2)
RF Frequency Range	950 to 2.150 MHz
Input Level	-80 dBm to -30dBm
VSWR	> 10 dB
Input Connector	F-female
Output Connector	F-female
Impedance	75Ω
Symbol Rate DVB-S/S2 (QPSK)	256/512 kSym/s - 30/45 MSym/s (standard)
FEC DVB-S	1/2, 2/3, 3/4, 5/6, 7/8
FEC DVB-S2 QPSK	1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
FEC DVB-S2 8PSK	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
FEC DVB-S2 16APSK	2/3, 3/4, 4/5, 5/6, 8/9, 9/10
AUDIO SPECIFICATIONS	
MPEG Decoder	MPEG Layer II, AAC
Volume Settings (ref.)	-20 to +12 dB
Digital Level Reference	-9 dBFS (100%)
Analogue Audio Out	XLR, 30Ω
Digital AES/EBU Out	XLR, 110Ω

DATA PORT	
Number of Ports	Max. 3 (depending on model)
Port Type	RS-232, N-8-1
Data Format	<ul style="list-style-type: none"> <li>4 types of private data</li> <li>2 types of ancillary data (J.52 and IRT/DVB Standard TR 101 154)</li> </ul>
IP PORT (MANAGEMENT)	
Protocol	TCP/IP
Port Type	Ethernet RJ45, 10/100 Mb/s
Communication Type	HTTP and SNMP
ALARM CONTACTS	
Number of Relays	3 (status/alarm)
Contacts	Charge over (N.O. and N.C.)
MISCELLANEOUS	
Contacts	8 switched outputs
LNB Voltage Supply	13/18 Volts selectable, Universal LNB, ≤ 450 mA
POWER REQUIREMENTS	
Supply Voltage	100 to 240 VAC, 50/60 Hz
Power Connection	IEC panel-mount/fuse 2.5 AT
Safety and EMC	According to CE regulations
PHYSICAL PARAMETERS	
Chassis	1 RU rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 30 cm (1.75" x 19" x 11.8")
Weight	5 kg (11 lbs.)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	5° to 45° C (41° to 113° F)
Storage Temperature	-5° to 65° C (23 to 149° F)



STR Pro Audio - 1



STR Pro Audio - 3

International Datacasting Corporation (TSX:IDC) is a global leader in providing IP-based datacasting solutions for the distribution of broadband multimedia content. IDC has a broad portfolio of advanced technology products for implementing a wide range of broadband content contribution and distribution networks. IDC's products are in demand for radio and television broadcast networks, distance learning, digital satellite news gathering and sport contribution, digital signage, digital cinema, IPTV distribution and other applications.



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