INTERNATIONAL DATACASTING

P561 Audio Encoder

For Multi-Channel Audio with ASI & IP Outputs

The P561 Audio Encoder features MPEG-4 Advanced Audio Coding (MPEG-4 AAC) and MPEG Layer II encoding capabilities. All of the common bit rates and sample rates are offered to enhance the IP delivery of audio.

The P561 is an audio encoder for up to eight stereo channels (encoder channels). The unit is built in a compact 19" 1 U housing. It is DSP-hardware based and highly energy efficient (< 2W per stereo channel). The P561 is capable of transporting elementary streams over IP and DVB-compliant MPEG-2 transport stream outputted via IP or ASI. Several configurations are available to adapt the audio input configuration to the network requirements in a flexible way.

The P561 also allows for the encapsulation of IDC's Net Manager, Production Manager and various other in-band functions such as NTP.

The P561 also supports up to 8 MPE data services which can be used for insertion of IDC Production Manager, Net Manager or other required IP data services.

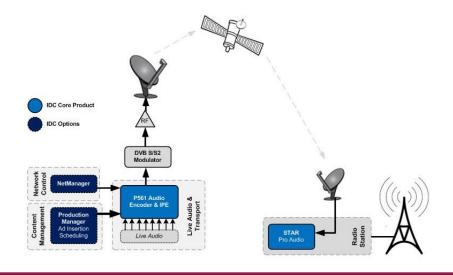
The LCD and keypads on the front panel allow for easy setup and monitoring. Users can select the audio quality by adjusting the codec, bit rate and sample rate. The IDC STAR Pro Audio™ Receiver (and SuperFlex® Pro Audio Receiver in PES mode) will automatically follow the changes which allows for maximum network flexibility and minimal cost. Software can be upgraded by using the internal IP based capabilities allowing future-proof protection for the implementation of next-generation codecs currently being developed. The P561 is RoHS compliant and CE certified to meet the demands of users worldwide.

Applications

- Professional Audio Networks
- DVB PES Audio

Features

- Dual ASI Output
- MPEG Transport Stream over IP outputs
- MPEG Layer II
- AAC
- MPE Encapsulation
- AES/EBU digital inputs
- Analog audio inputs
- DVB compliant
- RDS ancillary data (DVB standard TR 101 154)
- 8 GPIO inputs
- Remote controllable over IP via SNMP



TECHNICAL SPECIFICATIONS—P561 Audio Encoder

MODEL	DESCRIPTION	
Base	 Licensed for one audio encoding channel MPEG Layer 2 support ASI and MPEG Transport Stream over IP outputs RDS ancillary data (DVB standard TR 101 154) 8 GPIO inputs (shared across all audio channels) 8 MPE input services 	
HARDWARE OPTIONS		
4 Channel analog and digital	Up to 4 stereo channels (analog and digital AES/EBU)	
8 Channel digital	Up to 8 stereo channels (digital AES/EBU only)	
SOFTWARE OPTIONS		
Additional Channel	 Additional licensed channel Max. 4 analog or 8 AES per unit (software option) 	
AAC Encoding Support	AAC SupportLicensed per channel (software option)	



AUDIO INPUT			
Digital	AES/EBU, electrical, XLR (IEC958)		
Analog	XLR, electronically balance, level range 0 +18 dBu A/D converter: 24 bits		
Audio Encoding	 ISO/IEC 11172-3, 13813-3 MPEG-1/2 Layer II ISO/EC 13813-7 MPEG-2 AAC ISO/IEC 14496-3 MPEG-4 AAC LC, HE-AAC v2 Linear PCM, up to 24 bits/sample 		
Encoding Bitrate	 All allowed bitrates as defined in the respective standards Sampling rate: 32 kHz, 48 KHz Audio frequency range (analog): 20 HZ 20 kHz, +/- 0.3 dB 		
Ancillary Data	Private stream inside the MPEG-2 transport stream or embedded in MPEG audio data Content ancillary data Transparent, UECP		
Ancillary Data Input	RS-232 (Sub-D9 pin connector, 120038400 bits/sec) or via IP interface		
TRANSPORT PROTOCOLS			
Over IP	Streaming of elementary streams compliant to RFC3550/3551, RFC3016, RFC3640 Output of DVB MPEG-2 transport streams including service information according to ETSI EN 300 468 compliant to Pro-MPEG Code of Practice #3 release 2		
Over ASI (2 Ports)	Output of DVB MPEG-2 transport streams including service information according to ETSI EN 300 468		
MPE	Support 8 MPE inputs (non-section pocketed)		



NETWORK INTERFACES

- 2 Ethernet interfaces
- DVB ASI (EN 50083-9)

SYSTEM CONFIGURATION AND CONTROL

- Via Ethernet by accessing the on-system HTTP web server with any Internet browser
- Via Ethernet using SNMP
- Via the front panel keyboard and display

• Via the front panel keyboard and display			
POWER REQUIREMENTS			
Supply Voltage	100 to 240 V AC +/- 10%, 50-60 Hz		
Power Consumption	Dependent on number of channels, 30 W typical		
PHYSICAL PARAMETERS			
Chassis	1 RU rackmount		
Dimensions (H, W, D)	4 cm x 48 cm x 36 cm (1.7" x 19" x 14")		
Weight	3.5 kg (7.7 lbs.)		
ENVIRONMENTAL CONDITIONS			
Operating Temperature	0° to 45° C (32° to 113° F)		
Storage Temperature	-20° to 70° C (-4° to 158° F)		

-20% to 90% non-condensing

International Datacasting Corporation is a technology provider for the world's premiere broadcasters in radio, television, data and digital cinema. IDC's products and solutions are in demand for radio and television networks, targeted ad insertion, digital cinema, 3D live events, VOD, and IPTV. IDC is headquartered in Ottawa, Canada, has installations in over 100 countries, and a strong world-wide network of value-added partners and distributors. For more information visit: www.datacast.com.

INTERNATIONAL DATACASTING

HEADQUARTERS: 50 Frank Nighbor Place, Kanata, ON Canada K2V 1B9

Tel: +1 613.596.4120

Humidity

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