AAT-P400D Modulator

Transmodulator/Processor

OVERVIEW

The P400D is a powerful and cost-effective broadcast level Transmodulator/Processor. It supports signal receiving, multi-channel descrambling, multiplexing, external table/data insertion and transmodulating. It also supports MPEG2/MPEG4 SD/HD program decoding with two audio channels. With a remote, web-based management interface, it is ideal to support advanced content distribution, real-time signal conversion and transmission for any headend system. On-board PSIP Generation/Re-branding.

FailOver Slate

KEY FEATURES

Input

- 8-VSB RF input support
- Supports ASI and TS-IP input and redundancy

Data Processing

- Two separate common interfaces support multi-channel descrambling
- PID filtering, PCR re-mapping and filling (VBR/CBR)
- PSI/SI processing and regeneration
- Supports TS & Service multiplexing
- Supports TS & EIT pass-through

Output

- MPEG2 or MPEG4 HD/SD video decoding
- HDMI, SD/HD SDI and CVBS output
- SDI output with 2 embedded audios
- 1 audio decoding through AES/EBU digital audio output, 2 pairs of balanced and unbalanced analog audio outputs
- Multicast and unicast broadcasting in LAN and WAN network
- GPI alarm and cue tone output
- 8-VSB RF Output
- Failover Slate on input loss

Management

- 1 Ethernet 10/100Base-TX, RJ45
- Web-based user interface
- Front panel keypad and LCD
- SNMP supported for system integration
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SPECIFICATIONS

AC Power Input	
Voltage	100 - 240 VAC
Power Consumption	Approximately. 40W
Frequency	50 - 60 Hz
Management	
Connector Type	RJ45 10/100 Mbps, Auto-Sensing
Protocols	HTTP and SNMP
User Interface	WEB GUI and Front Panel
Firmware Updates	Via Web GUI
8VSB Input	
Frequency Range	57 – 803 MHz
Broadcast Channels	2 – 69
Impedance	75 Ohms
Connector Type	'F' Female
RF Bandwidth	6 MHz
RF Sensitivity	-83 to 8 dBm
8VSB Output	
Frequency Range	44 – 850 MHz
Frequency Step Size	1KHz
Frequency Accuracy	< ± 2 ppm
Frequency Stability	< ± 2 ppm
Output Level	-20 to 0 dBm
Impedance	75 Ohms
Connector Type	'F' Female
Spurious Output	-60 dBc
ASI I/O	
Connector Type	4 BNC, 75 Ohm (2 input, 2 output)
Max Bitrate	100 Mbps
Packet Type	188 or 204 byte
Input Mode	Burst or byte
Output Mode	Burst
MPEG over IP I/O (Optional)	
Connector Type	RJ45, single Port
Speed	Up to 1000Mbps
Package Format	UDP & RTP
Traffic Type	Unicast and Multicast
FEC	ProMPEG CoP3v2
TCP/IP Protocol	IPv4
IGMP	V1, 2 and 3
Fail-Over Slate (Optional)	
Upon signal lost, the unit will automatically change its input selection for Fail-Over (slate)	
PSIP Update	
Station Identification	Up to seven letters
Transport Stream ID	TSID
Major Channel Number	#2 – 69
Minor Channel Number	#0 – 9
Mechanical	
Size	19" x 1.7" x 17.3" (485 x 340 x 45mm)
Rack Space	1RU
Weight	12 pounds (5.5 Kg)
Environmental	
Operating Temperature	0° to 50° C
Storage Temperature	-40° to 70° C
Humidity	95%, Non-Condensing