

PR-400 DTV HEAD-END PROCESSOR



Product Outline

PR-400 DTV head-end processor is a professional processor which supports decoding, trans-coding, multiplexing, descrambling processing and the combination of all these functions. It supports DVB-S/S2, IP and GE inputs, and DVB-S/S2, IP, ASI, and GE outputs. PR400 is a 1-U case which supports 6 daughter modules, and it will be available for any applications beyond your imagination besides decoding, trans-coding, multiplexing and descrambling. With its powerful performance and low cost, PR400 is especially adequate for the new generation CATV system.

Key features

- Support flexible combination of different type of modules
- Support up to 6 modules
- Support maximum 12*IP input
- Support 1 ASI (MPTS) output
- Support 1 GE input, RJ45 interface
- Support Web management, Updates via web
- Support redundancy power supply

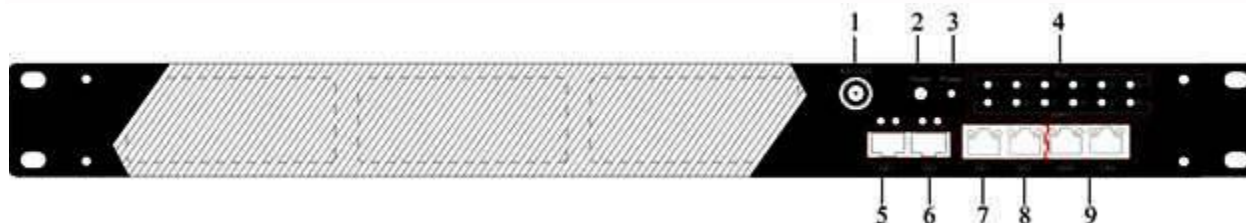
Specifications

System Function	LCD & Key board control; web-based NMS management	
	Ethernet software upgrade	
General	Dimensions	482mm×442mm×44mm (WxDxH)

	Approx. weight	3.8 Kg
	Temperature range	0~45°C(Operation), -20~80°C(Storage)
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz
	Power consumption	20W

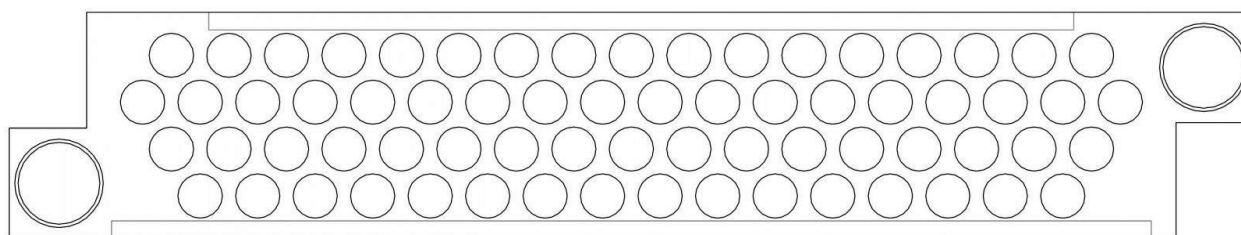
Appearance and description

Front Panel Illustration:

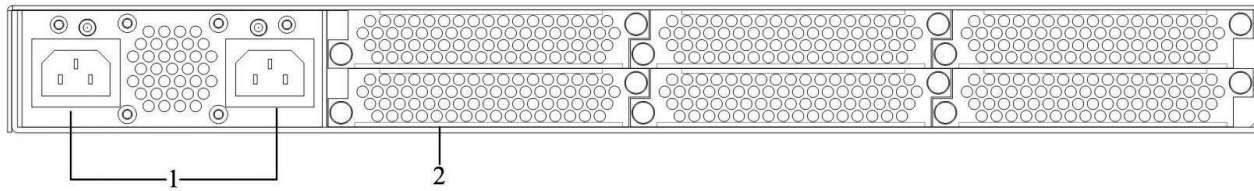


1	ASI output port
2	Reset: Reset webmaster IP address, recover it to default IP address,
3	Power indicator
4	Indicator Area (if not clock, the red light on; if clock 1 IP, the green light flash, if clock 2 IP, the green light on)
5	GE1: IP output port, SFP connector
6	GE2: IP input and 2 IP output port, SFP connector
7	GE1: 12 IP output port, RJ45 connector
8	GE2: IP input and Second 12 IP output port, RJ45 connector
9	NMS: network management system /CAS communication, Ethernet interface

Transcoding module:



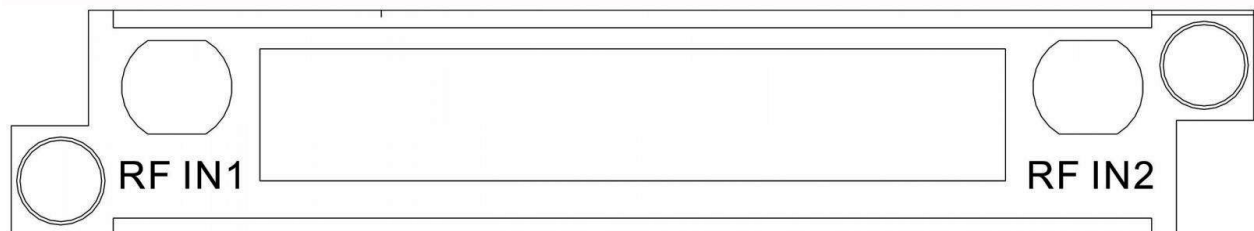
DHP400 rear panel with transcoding module illustration:



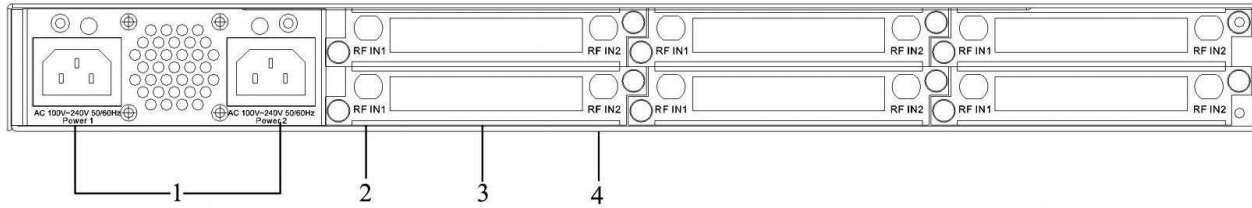
1	Power switch/Fuse/Socket
2	Air Vent

Stream In	12 IP input over UDP or RTP protocol MPTS/SPTS , 1000M Base-S Ethernet Interface/SFP interface		
Video		Input	Output
	Resolution	1920x1080P,1920x1080i, 1280x720P, 720x576i, 720x480i	1920x1080_60p,1920x1080_50p, 1920x1080_60i,1920x1080_50i, 1280x720_60p, 1280x720_50p, 720x576_50i, 720x480_60i
	Trans-coding	MPEG-2, H.264, AVS/AVS+ HD → 12* H.264 HD ; MPEG-2, H.264, AVS/AVS+ HD → 12* H.264 SD ; MPEG-2, H.264, AVS/AVS+ SD → 12* H.264 SD ; MPEG-2, H.264, AVS/AVS+ SD → 12* H.264 HD ;	
	Rate Control	CBR/VBR	
	GOP Structure	IBBP/IPPP/IBP	
Audio	Trans-coding	MPEG-1 Layer II, LC-AAC , HE-AAC, AC3,DRA	MPEG-1 Layer II, LC-AAC , HE-AAC
	Sampling rate	48KHz	
	Bit Rate	64Kbps-384Kbps	
Stream Out	12*SPTS & 1*MPTS over UDP/RTP/RTSP, 1000M Base-T Ethernet Interface (UDP/RTP unicast / multicast)		
	1*ASI (as a copy of one of the MPTS) output, BNC interface		

Tuner module (2 RF input)



DHP400 rear panel with tuner module illustration:



1	Power switch/Fuse/Socket
2	RF in1 interface
3	CAMs /Smart card slots
4	RF in2 interface

Stream In	12*RF and 12*IP input over UDP or RTP protocol MPTS/SPTS , 1000M Base-S Ethernet Interface/SFP interface		
Tuner section	DVB-S	Input Frequency	950-2150MHz
		Symbol rate	1-45Msps
		Signal Strength	-65~-25dBm
		FEC Demodulation	1/2, 2/3, 3/4, 5/6, 7/8 QPSK
	DVB-S2	Input Frequency	950-2150MHz
		Symbol rate	QPSK/8PSK: 1~45Mbauds
		Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
		Demodulation Mode	QPSK, 8PSK
Stream Out	12*IP output over UDP/RTP/RTSP, 1000M Base-T Ethernet Interface (UDP/RTP unicast / multicast)		

DHP400 rear panel with 5*transcoding modules and 1*Tuner module:

