



DHP400

DTV Head-end Processor



Redundancy Power Supply (Optional)

Two options for redundancy power supply:

- ◆ Non-Hot Plugging (option 1)
- ◆ Hot Plugging (option 2)

Product Outline

DHP400 DTV head-end processor is the new generation of intelligent headend processing equipment. This 1-U case comes with 6 independent module slots. Each module can be configured individually based on the applications including encoding, decoding, trans-coding, multiplexing, descrambling and modulating processing and the combination of all these functions. It supports multiple input and output interfaces and signal formats. With its powerful performance and low cost, DHP400 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 1 ASI output (Copy as MPTS2 through front panel GE2)
- Support 2 GE output, 512 SPTS (UDP, RTSP/RTP) output from GE1, 8 MPTS (UDP,RTP) output from GE2, Unicast/Multicast, RJ45/SFP interface
- Support Web management, Updates via web

Module Specifications:

8 DVB-T/ATSC Modulating Module



DX308T/DX308AT

Module Specifications:

Data input: Stream connector
 256 IP input over UDP/RTP, 2GE Ports (RJ45/SFP)
 Data output: 8 IP output over UDP/RTP/RTSP, unicast/multicast, 2 GE Ports (RJ45/SFP)
 Trans Rate: Max 840Mbps/GE Port
 RF Output (F type): 8 non-adjacent carrier outputs within 192M bandwidth

Multiplexing:

Channel Number: 8 multiplexing channels
 Maximum PID Remapping: 180 output pids per channel
 Function: PID remapping (automatically or manually), Accurate PCR adjusting, generate PSI/ SI table automatically

Modulation: DX308T (8*DVB-T)

Standard: ETSI EN300 744 MER: $\geq 40\text{dB}$
 RF Frequency: 50~960MHz, 1KHz step
 Constellation: QPSK/16QAM/64QAM Bandwidth: 6/7/8 MHz
 Trans mode: 2K/4K/8K FEC: 1/2, 2/3, 3/4, 5/6, 7/8
 RF Output Level: -20~+10dBm (for all carriers), 0.5dB step

Modulation: DX308AT (8*ATSC)

Standard: ATSC A/53 MER: $\geq 40\text{dB}$ RF Frequency: 50~960MHz, 1KHz step
 Constellation: 8VSB Bandwidth: 6MHz FEC: RS(208 188)+Trellis
 RF Output Level: -20~+10dBm (for all carriers), 0.5dB step

6 ISDB-Tb Modulating Module



DX306I

Module Specifications:

Data input: 32x6 IP input over UDP/RTP, 2 GE Ports (RJ45/SFP) and stream connector
 Data output: 6 IP output over UDP/RTP/RTSP, unicast/multicast, 2 GE Ports (RJ45/SFP)
 Trans Rate: Max 840Mbps/GE Port
 RF output (F type): 6 channels of multiplexing and modulation.

Multiplexing:

Maximum PID Remapping: 180 output pids per channel
 Function: PID remapping (automatically or manually), Accurate PCR adjusting, generate PSI/ SI table automatically

Modulation:

Standard: ARIB STD-B31
 Bandwidth: 6M Constellation: QPSK, 16QAM, 64QAM
 Guard Interval: 1/32, 1/16, 1/8, 1/4 Transmission Mode: 2K, 4K, 8K
 Code rate: 1/2, 2/3, 3/4, 5/6, 7/8 MER: $\geq 40\text{dB}$
 RF frequency: 50~960MHz, 1KHz step
 RF output level: -20dBm~+10dBm (87~117dB μ V), 0.1dB stepping

Equipment Specifications:

Base Unit Parameters

Dimension(W×L×H): 482mm×410mm×44mm
Environment: 0~45°C(work); -20~80°C(Storage)
Power requirements AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz

Parameters Comparison:

	DHP400	DHP400A
IP Data Transport	One-way Transport: GE1/GE2 support output maximum 8 MPTS & 512 SPTS	Bi-directional Transport: GE1/ GE2 support IP data input and output
TS Processing Number	Support 1 TS (MPTS/SPTS) input from each module, and maximum bit rate is 350Mbps	Support maximum 512 TS (MPTS/SPTS) input from each module, and maximum bit rate is 350Mbps
Multiplexing	Support multiplexing function: It can mux TSs from different modules to one TS and output through one module or GE1/GE2 port	Doesn't support multiplexing function: It can combine TSs from different modules and output these TSs through one module or GE1/GE2 port
Output Per Module	1 MPTS after multiplexing	1 or multiple MPTS/SPTS