

DCM700

DIBVISION | **dibSYS**

GbE IP MPEG Processor with Multiplexing, Scrambling



DCM700 is a compact 1RU platform capable of processing a high number of MPEG video streams. The MPEG Processor is the Second generation of intelligent headend processing equipment where the combination of compactness and flexibility leads to a cost-effective solution. Based on our experience, brings operational and economic benefits in MPEG processing application. The optional built-in DVB scrambler allows easy integration with several Conditional Access (CA).

DCM700 is an ideal solution for multiplexing, scrambling of MPEG streams which provide a cost effective, versatile and efficient for delivering digital TV content over IP networks that Integrates up to 16 separate IP address or Ports and De-encapsulates and Routes Any or All Selected Transport Streams via GbE IP Inputs Port.

DCM700 Supports advanced PSI and descriptor handling capabilities. PSI, SI tables can be regenerated and played out, changing dynamically according to input changes and configurations. Integration with SI-Editor allows customized PSI/SI situations to be addressed.

Key Features

- Up to 2*GbE
- Up to 1700 Mbps GbE IP inputs/outputs
- Up to 500 input TS, 32 output TS, 1000 DTV programs, be equivalent to 32 sets of multiplexer and scrambler separately
- Up to 4 CAS simul-cryption
- De-encapsulates and Routes Any or All Selected Transport Streams outputs
- Support processing for multiplexing PSI/SI Table
- PID filtering, mapping and passthrough
- Auto-generation and manual upload for SI/PSI information
- SPTS and MPTS supported
- Transrating of MPEG2/MPEG4 AVC SD and HD
- Management via WEB and local front panel
- Integrated, compact 1-RU platform saves rack space and reduces operating costs
- Low network jitter, low latency, high PCR precision
- Easy-to-Use System Management
- Real-time monitoring bit rate statistics

Application

- All-Digital Broadcast IP Headend Solution
- Contribution and Distribution
- MPEG processing applications
- Deliver any MPEG content from satellite, cable, DTT source

TECHNICAL SPECIFICATIONS

GbE IP Inputs

Connector Type	RJ45
Total input rate	≤1700 Mbps
TS Stream	MPEG-TS over IP
Stream number	1-500
Unicast/Municast	(IGMP 2.0, 3.0)
Vlan tag	4

MPEG-TS Over IP out

1000M base-T, Full Duplex	≤1700Mbps
Bit rate	MPEG TS over UDP/IP output
TS Stream	Multicast/Unicast
Stream number	1~32
	7x188 ts packets per UDP packet

Multiplexing

PSI/SI table	(PAT, PMT, NIT, TOT, TDT, BAT) automatic or Manual generate
	Up to 768 programs to multiplex
	Max.64 service id per one MPTS out
	PID Filter, Remapping capabilities

Scrambling

Number	Up to 500 programs to scrambling
CAS simul- encryption	up to 4
EMM of bandwidth	1-4Mbps
The scrambling function and configures the numbers of output modulation channel through software authorization	

Control & Monitoring

Interface	1000M Base-T Ethernet, RJ45, WEB (IE 8.0 or above)
6 keys	UP, DOWN, LEFT, RIGHT, ENTER, ESC
Remote Control	Web management
Local Control	Front-Panel LCD configuration, LED indicate light

Environment

Power Supply	AC 90-260V 50/60Hz
Power consumption	50W
Dimension	L: 460mm, W: 483mm, H: 44mm (1RU)
Operating temperature	-10 ~ 50℃
Storage temperature	-10 ~ 75℃
Humidity	10 ~ 90% non-condensed
Weight	6KG

ORDERING INFORMATION

Product category	Product Model	Detail Description	Application
Related Products	PREMIUM 8* DVB-S2 FTA IRD IRD1218	8* DVB-C or FTA/BISS DVB-S2 inputs(QPSK/8PSK demodulation); 14*MPTS/240+SPTS/2ASI out; MPEG-TS over UDP/RTP; Multiplexer/ Scrambling; 5 years Warranty	-Large and Medium Cable TV operator -IPTV/OTT headend -Content providers -DTH -Carrier-grade
	PREMIUM 8* DVB-S2 CI IRD IRD1380	8*DVB-C/S2/T2/ATSC/ISDBT/8 CI input; 9*MPTS/128*SPTS/ 9*ASI out; MPEG-TS over UDP/RTP; Multiplexer; 5 Years Warranty	
	Carrier 8* ATSC/ISDB-T/DVB-T2 FTA IRD IRD1518S	8* ATSC, ISDB-T, DVB-T2(or DVB-C/DVB-S2) FTA tuners inputs, 256* UDP/RTP SPTS over IP out	
Companion Products	Professional IP QAM Modulator IPQ6250	16 QAM no-adjacent/Two GbE IP per Module, 3 Modules/48QAM per 1RU, Annex A/B/C, Multiplexer/ Scrambling; 5 Years Warranty	-Cable TV operator -Distribute video to QAM Network
	200Channel IPTV Transcoder Caster-T328	25SD(or 12hd or 5FullHD) Chs per Module, 8 Modules per 3RU, H.264(Upgrade to H.265 by license), RTMP/HLS/UDP/ HTTP/RTSP; Across/upscale/downscale convert 3 Years Warranty	-IPTV -Cable TV operator -Content Provider -Video to Ethernet
	H.264/H.265 IPTV Transcoder Anystream428	2*GbE IP input/output, 25*SD or 12*HD or 5*FullHD transcoder per blade, Up to 8 hot plug blades, H.264/H.265 UDP/RTSP/HTTP/HLS/RTMP; 5 Years Warranty	-Cable TV/DTH -IPTV/OTT -Web/Internet TV -Ultra-low bitrate at superior video quality
	120Channel H.264 OTT Transcoder Matrix-VI	30*SD (or 15*HD or 6*FullHD) per module. Up to 4 modules 120Channels, H.264 encoding, 2RU chassis, UDP/RTSP/HTTP/HLS/ RTMP; 5 Years Warranty	