

DCM701

dibsys

DVB-IP Multiplexer/Gateway

8*ASI/120*IP ---> 450* IP



DCM701 MPEG Processor is the Second generation of intelligent headend MPEG-TS processing equipment, where the combination of compactness and flexibility leads to a cost-effective solution. It compact platform capable of processing a high number of MPEG video streams, which performs the adaptation of Inputs between 8 channels ASI and up to 120 separate IP inputs and up to 450 IP out in One Gigabit Ethernet via multiplexing and scrambling before send to local digital headend system or IPTV network .

DCM701 MPEG Processor brings operational and economic benefits in MPEG processing applications. Its remarkable feature is helping customers to distribute MPTS (from traditional DVB-ASI transmission and IP stream encapsulated as MPTS) to SPTS streams which is suitable for VOD and IPTV. It can convert ASI to IP, more stream multiplexing and PSI/SI auto-generation play out.

DCM701 Option built-in scrambler allows easy integration with several leading Conditional Access Systems. Migrating several CA systems is possible through the Simulcrypt interface. Furthermore, redundancy is supported in order to help minimize a system failure.

Business Benefits

Smooth Migration from ASI to All-IP headend

ASI to Gigabit Ethernet (GbE) adapter enables operators to cost-effectively migrate legacy ASI headend equipment to IP-based headend system. It can delivers highly reliable conversion of transport streams from legacy ASI output IRDs and encoders to a IP-based local headend or remote transport network. There is no necessary for operator to replace existing traditional ASI headend with new all-IP headends.

Easy-To-Use Network Management

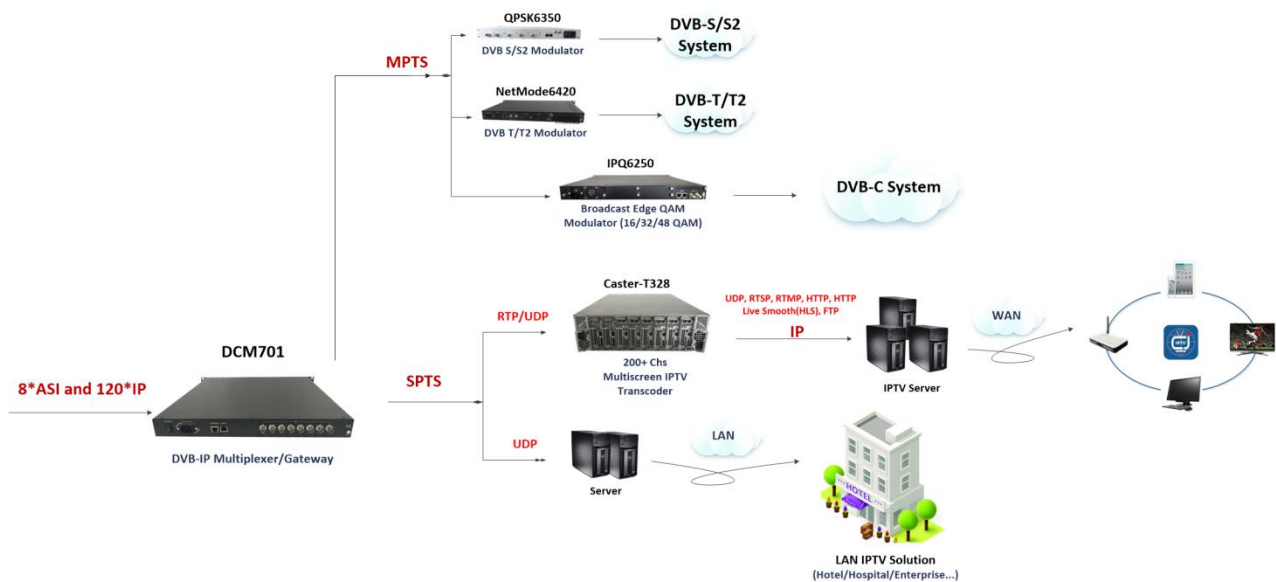
Local and remote configuration, monitoring and software upgrades can be realized easily by employing Web browser and SNMP-based network management, the series enables the operator to reduce the operation and maintenance cost with minimum investment on manpower.

Features

- Up to 8*ASI and 120*IP inputs, 450*IP outputs in 1 RU Chassis
- Demultiplexing of MPTS into SPTS
- Processing for Up to 512 programs in SPTS/MPTS multiplexing, Option scrambling
- High density, high quality, high performance, high flexibility
- Reboot in Web-GUI
- Error Monitoring on each input and Detailed bit rate measurement of incoming services
- Select Two output modes: In/Out Passthrough; Mux
- MPEG TS over UDP, RTP IP out
- PID filter, Re-Map, Passthrough with User-Defined PID Value
- and any Index of In/Out TS
- EPG EIT Table passthrough
- Flexible configuration Service ID, Program Name
- PAT, CAT, SDT, TDT, TOT PSI/SI generation automatic
- Low power consumption and high reliability with MTBF(Mean Time Between Failure) ≥ 87600 Hours
- Support Get Browser UTC Time and Selectable Time Zone
- 5 years Warranty
- Front panel for direct alarm status information
- Easy control using web browser and local front panel

Application

- Digital Cable and terrestrial TV via IP networks
- Convert MPTS to SPTS connect with IP TV headend
- Corporate and Government networks
- Upgrade traditional ASI to IP headend solution



TECHNICAL SPECIFICATIONS

DVB-ASI Inputs

Standard	GY-T 170-2001, EN50083-9
Interface port	8 independent ports, BNC-Famale, 75Ω
Date Bitrate	<100Mbps
Packet Length	204/188bytes
Input amplitude	200-880mV
Reflection loss	15dB
Work Mode	Burst, Smooth

IP Inputs and Outputs

Connector	1port, 100/1000M base-T, Full Duplex, RJ45
Bit rate	≤800Mbps
Data Protocol	UDP/RTP, Multicast, Unicast (IGMP V2,V3)
Max.Channel Inputs	120
Max, Channel Output	450
	7x188 bytes per UDP packet
	SPTS over IP out
	MPTS over IP out
	One MPEG-TS inputs direct to One IP out
	Any MPEG-TS inputs mux to One IP out

Multiplexing

PSI/SI table	PAT, PMT, CAT, SDT, TOT, TDT, SPTS SDT (Disable/Enable)
Input/Output Charset	LATIN, GB2312, UTF-8
Max.Programs	Up to 512 programs to multiplex
	64 service id per one MPTS In/Output
Editable information	PAT/SDT/CAT/TOT/DTT Interval(ms)
	Service ID; Program number
PID process	PID Map, PID Filter, PID Passthrough
Output Mode	In/Out Passthrough; Mux

Option Scrambling

Simul-Crypt	
CAS number	0-4
(Software License Authorization will take effect)	
Scrambling algorithm	DVB-CSA
Table update	CAT/PMT
ECMG interface	TCP
EMMG interface	TCP/UDP
EMM bandwidth	0~3Mbps/TS

Management

	100M Base-T Ethernet, RJ45
	Web Browner IE 8.0 or above
6 Keys	Up, Down, Left, Right, Enter, Esc
	2 lines 20char LCD
	Status, Alarms LED
Time Zone	UTC+13:00 - -13:00
Software-Reboot	

Environment

Rated Voltage	AC 85-260V 50/60Hz
Rated power	35W
Num of Power Supply Modules	1
Operating temperature	-10 ~ 50°C
Storage temperature	-10 ~ 75°C
Dimensions	460mm (L) *483mm (W) *44mm (H)
Weight	5.7Kg

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	