

DXP-3000IM is a single channel digital TV modulator, which receive the transport stream from ASI or IP input and modulate to DVB QAM or COFDM via RF output. The built-in re-multiplexer can be used to process the TS and generate a new TS which can be output via ASI output or TS/IP interface.

DXP-3000IM accommodated in 1U x 19" standard chassis with 2 redundant power supply modules. It is the most suitable deployment choice for any system in DVB, IPTV and Surveillance industries.

DXP-3000IM

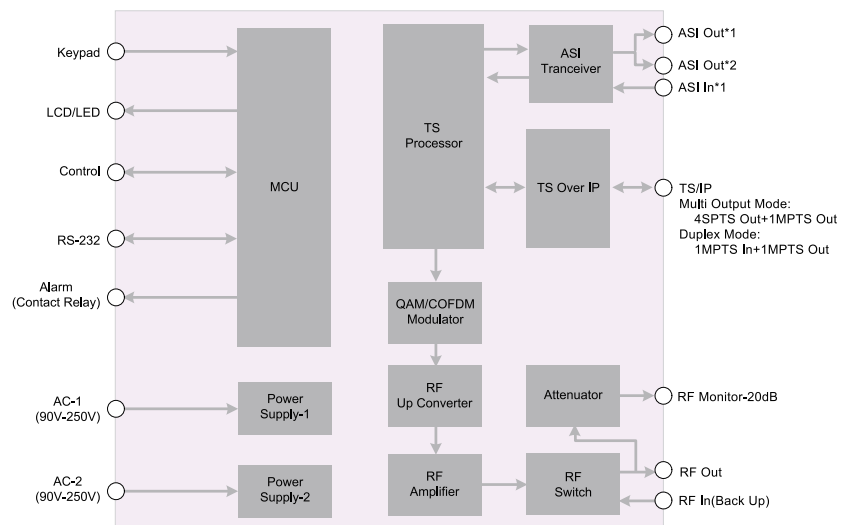
Professional QAM Modulator



Main Feature

- DVB-C/QAM (ITU J.83 Annex A/C) or DVB-T/COFDM RF out selectable
- 120dBuV Total Output Level
- ASI & TS/IP outputs
- built-in re-multiplexer
- Full duplex TS/IP input and output
- SNMP & HTTP remote control & monitor
- Software could be upgraded with Web interface
- EIA 1U x 19" standard chassis with 2 redundant power supply modules

Block Diagram



Specification

DVB-ASI Input	
Interface Type	BNC Female, 75Ω
Maximum Effective Bit Rate	100 Mb/s
Data type	Byte
Packet Length	188/204 Bytes
Valid Receiving Amplitude	200~880mVp-p
DVB-ASI Output	
Interface Type	BNC Female, 75Ω
Maximum Effective Bit Rate	120Mb/s
Data type	Byte
Packet Length	188/204 Bytes
Output Waveform Level	800±80mVp-p
TS/IP Gigabit Ethernet (Duplex mode)	
Physical Layer Standard	IEEE 802.3, 10/100/1000 Base-T
Maximum Effective Bit Rate	80Mb/s
UDP/RTP	SPTS or MPTS
Protocols	ICMP, ARP, IGMPv2
QAM Modulation	
Standard of System	ETSI EN300 492, ITU J.83, Annex A/C: 16/32/64/128/256QAM
Symbol Rate	3~7.2MS/s
I/Q Amplitude Error	≤ 0.1%
I/Q Phase Error	≤ 0.1%
Phase Jitter	< 0.5°RMS
MER	36dB min., 42dB typ. (with tester equalizer "off")
COFDM Modulation	
Standard of System	ETSI EN 300 744

Constellation	QPSK/16QAM/64QAM
Bandwidth	5/6/7/8MHz
FTT carrier number	2K, 8K
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	36dB min., 40dB typ.
RF Output	
Interface	F-type Female, 75Ω
Carrier Central Frequency	50~996MHz adjustable, step by 10 KHz
Output Level	90~120dBμV, step by 1dB
Spurious	≥60dBc @ 120dBuV
Return Loss	≥12dB(typ.)
Rear Panel	
ASI In	1×BNC Female, 75Ω
ASI Out	2×BNC Female, 75Ω (mirrored contents)
RF Out	1×F Type Female, 75Ω
Back-up RF In	1×F Type Female, 75Ω
Front Panel	
Control	1×RJ-45, 10/100 Base-T
TS/IP	1×IP(GbE), RJ-45, 10/100/1000 Base-T
Display	20×2 character LCD
RF Monitor -20dB	1×F Type Female, 75Ω
Others	
Operating Input Voltage	AC100~260V 50/60Hz
Operating Temperature	0~40℃
Storage Temperature	-10~60℃
Operating Humidity	10~90%, Non-condensed

Back Panel Interface

