QAM6248 Plus

12* DVB-S/S2 to DVB-C/T Transmodulator



QAM6248Plus Provides a highly flexible solution for delivery of any FTA Satellite DVB-S2 and Terrestrial DVB-T2 Signals, IPTV content all encoding and Resolution of video can be simultaneously output over IP and RF(DVB-C/T), No Needs to wire new cables as it shares the existing antenna coax cables to deployed with Analog TV network.

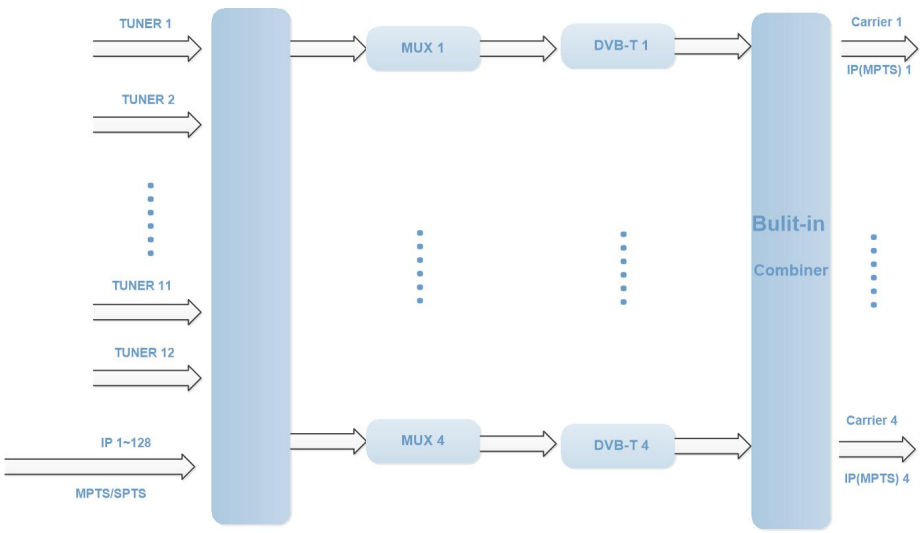
This unit is designed especially for high channel density Distribution Video Engineering project, which support rapid deployment, and compatibility **IP source and DVB-S2/T2 RF inputs** simultaneously. It used in some of the most Digital TV Broadcasting and Hotel for Coax headend solution in the world, and it is an ideal solution for any environments which can support unlimited numbers of displays within big distance range, such as **Community, Restaurants, Stadiums, Campus, Entertainment facilities, Airports, Theaters, Education Markets**.

QAM6248Plus Big advantage, it works with 128 UDP/RTP IP IGMP2.0 source and Up to 12 Clear DVB-S2 or DVB-T2 Transponders inputs together. Integrate All in One Multiplexer and Scrambling MPEG-TS out Over 4 adjacent RF Channels as mirrored of 4 MPTS over LAN network.It is also characterized with high integrated, high performance and breakthrough price.

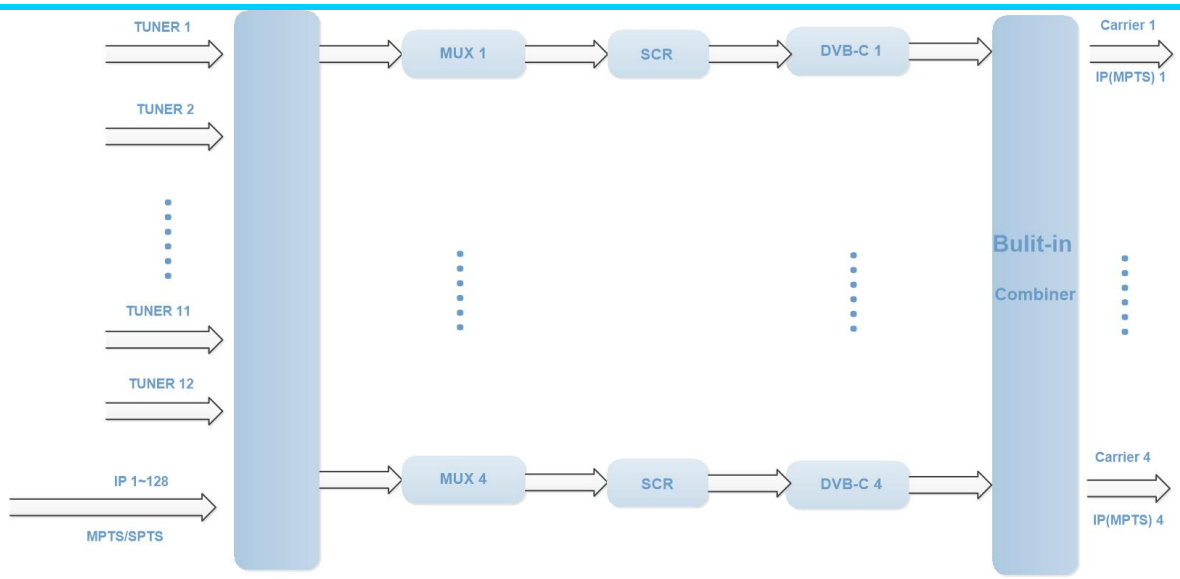
Features

- Distribute FTA Channels over RF (DVB-T/C) to an unlimited number of TVs
- Support Quad Tuners per module and Up to 3 modules and 128 IP over UDP/RTP inputs in 1RU Chassis
- Selectable any combination of 4 ways in Three RF modules Plug in: ① 3*DVB-S2; ② 3* DVB-T2; ③ 2*DVB-S2+1*DVB-T2; ④ 2*DVB-T2+1*DVB-S2
- Simultaneous video output in RF over coax and IP over Ethernet
- Support 4 Group of DVB-Simulcrypt CAS Scrambling for DVB-C QAM
- BISS mode 1 & BISS-E
- 4 separate multiplexing and Up-converter modulating adjacent carrier out
- LCN (Logical Channel Number) support
- DVB-C (EN300 429) and ITU-T J.83A/B supported
- PSI/SI editing & inserting
- PID Remapping & Filtering
- Support PCR correct and PCR interval adjusting
- Superior Shoulders and Excellent modulation quality MER
- Low power consumption and high reliability with MTBF(Mean Time Between Failure) ≦87600 Hours
- Easy-to-Use System Management via Web
- Log information printing
- Lowest Cost per channel - Breakthrough Price !

Principle Chart



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TECHNICAL SPECIFICATIONS

Input Interfaces

	4 FTA Tuners In/Loopout per Module
	Up to 3 Modules(12 FTA RF Ports)
	Selectable DVB-S/S2 or DVB-T2 Mode
	F-female type Connecter
	128 IP input over UDP and RTP ,RJ45 Port
	SPTS/MPTS,≦850Mbps per port
	Multicast(IGMP2.0/3.0)/Unicast,IPTV Sync

DVB-S/S2 Mode

Input Frequency	950-2150Mhz
Symbol rate	2~45Mbauds(DVB-S QPSK) 1~45Mbauds(DVB-S QPSK) 2~30Mbauds(DVB-S2 8PSK)
Signal Strength	- 65 ~ -25dBm
FEC Demodulation	1/2, 2/3, 3/4, 5/6, 7/8(DVB-S QPSK) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 (dvb-s2 QPSK/8PSK)
Roll Off	0.20; 0.25; 0.35 (Only DVB-S)
Demodulation Mode	QPSK, 8PSK (Only DVB-S2)
Input Impedance	75 Ω
Number of RF Ports	4

DVB-T/T2 Mode

Frequency Range	30MHz-1000Mhz
Bandwidth	6Mhz, 7Mhz, 8Mhz
Level	-87 ~ -20dBm
Constellation	QPSK, 16QAM, 64QAM
FEC Demodulation	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
Number of RF Ports	4

Multiplexing

Maximum PID	180 input per channel
Remapping	PID remapping by automatically or manually)
PSI/SI	SDI/PMT/TOT/PAT/BAT/CAT/TDT/NIT Insert
	Accurate PCR adjusting
	PCR PID Sync

Scrambling(Only for DVB-C)

Simul-Crypt	
CAS number	4
Scrambling algorithm	DVB-CSA
Table update	CAT/PMT
ECMG interface	TCP
EMMG interface	TCP/UDP
EMM bandwidth	0~3Mbps/TS

General RF Modulation

Connector	F-Type, 75 Ω
Ports	1 RF ports per module
Output Return Loss	14 dB
RF frequency	50~960MHz, 1KHz step
Number of RF Channels	4

DVB-C Mode

QAM Encoding	EN300 429& ITU-T J.83 Annex A (DVB), Annex B
MER	≥40db
Bandwidth	6Mhz(Annex B) or 8 Mhz(Annex A)
Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping
QAM Constellations	16/32/64/128/256QAM(Annex A) 64/256QAM(Annex B)
RF output level	-25~ -1dBm (82~107 dBμV), 0.1db step

DVB-T Mode

Standard	EN300744
FFT mode	2K
Bandwidth	6Mhz, 7Mhz, 8Mhz
Constellation	QPSK, 16-QAM, 64-QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥42 dB
RF output level	-28~ -3dBm (80~105 dBμV), 0.1db step

Stream output

	MPTS IP out Configurable mirroring per QAM
	TSoIP encapsulation UDP/RTP, 1*GbE Port)
	7x188 Bytes per TS packet
	Filter Null Packet
	Source TS select: Scrambled, No Scrambled
	BISS descrambling mode 1, BISS-E

System function

	Web Network management
	English language
	Ethernet software upgrade
	Save/Restore/Facture Set/Backup/Load Setting

Environment

Dimension(W×L×H)	482mm×300mm×44mm(1RU)
Approx weight	4kg
Temperature	0~45℃(Operation); -20~80℃ (Storage)
Voltage range	100 to 120/200 to 240V AC ±10%; 50/60Hz
Power consumption	< 30W

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Ordering Information

Product category	Product Model	Detail Description	Application
DVB-C TransModulator	Multi-Function 4Channel QAM Modulator **QAM6248**	8*FTA DVB-S2/6ASI/128IP, 8ASI/128IP , 4*CI DVB-S2/ 6ASI in, 4 QAM(Annex A/B/C, Scrambling) RF/MPTS UDP out	-Small-scale CATV networks -Upgrade Analog to Digital TV -DVB-S2 to DVB-T Converter **-**Hotel,Campus - **Breakthrough Price !**
DVB-S2 to RF Transmodulator	High Density Digital TV Transmodulator **MSM628**	16*DVB-S2 FTA/2ASI/512IP Input, 16*DVB-C (Scrambling, Annex A/B) /8*DVB-T RF /MPTS over UDP/RTP out	
IP to RF Modulator	16Ch IP QAM Modulator **IPM6000**	2GbE port/ 1024 IP inputs. 16*QAM (Annex A/B/C, Scrambling) /8 *DVB-T/ 8*ATSC/ 6***ISDBT** RF and MPTS over UDP/RTP out	-DVB/ATSC/ISDBT **-**Upgrade Analog to Digital TV **-**Hotel, Campus **-**Cable tv operator - **Breakthrough Price !**
Av mpeg2 encoder Moduator	8/12/24Ch AV MPEG2 Digital tv Modulator **MSM620**	128*IP and 8/12/24 Ch AV MPEG2 SD@50/60 fps; 4*DVB-C/4*DVB-T/4*MPTS over UDP/RTP out	**-**Distribute SD/HD to Coax& IP TV; **-**Hotel,Campus **- Breakthrough Price !**
HDMI to RF Modulator	12Ch hdmi h.264 modulator **MSM623**	128IP and 4/8/12Ch HDMI H.264; 4*DVB-C/4*DVB-T/4*MPTS over UDP/RTP out;	
HDMI to RF Modulator	Carrier 8Ch hdmi h.264 modulator-1080P@60fps **EMI3381**	1*ASI Mux and 8/4 Ch HDMI h264 1080p/1080i/720p/ 480i/ (576i/1080i->576, 480i Downscale convert)@50/ 60/59.94 fps; MPEG1 L2 Audio; 4*DVB-C/4*ATSC/ 2*DVB-T/2*ISDB-T/8* SPTS UDP and 2*ASI out	**-**Distribute HD/SD to Coax& IP TV; - DVB/ISDB-T/ATSC **-**Hotel, Campus

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