

MiniMod

Multi Port IP To DVB-C/T RF Modulator



MiniMod IP to RF Gateway and Modulator is an ideal solution for environments where you have a large number of displays over almost any distance such as Small and Medium Scale of Digital TV broadcasting System, Hotel, stadiums, Campus, entertainment facilities, Education Markets in limited budget. It supports 192 IP (SPTS/MPTS) inputs over UDP/RTP with 10 Ethernet FE ports and 2 GE port, and 1 TS in from an USB disk. After multiplexing, scrambling(for DVB-C only) and modulating process, it gives 5/8/12 DVB-C or DVB-T (developing) carriers output through one RF output interface.

MiniMod all-in-one device designed especially for high channel density Distribution Video Engineering project where rapid deployment, compatibility IP source inputs and Multi-Modulated Carrier RF outputs.

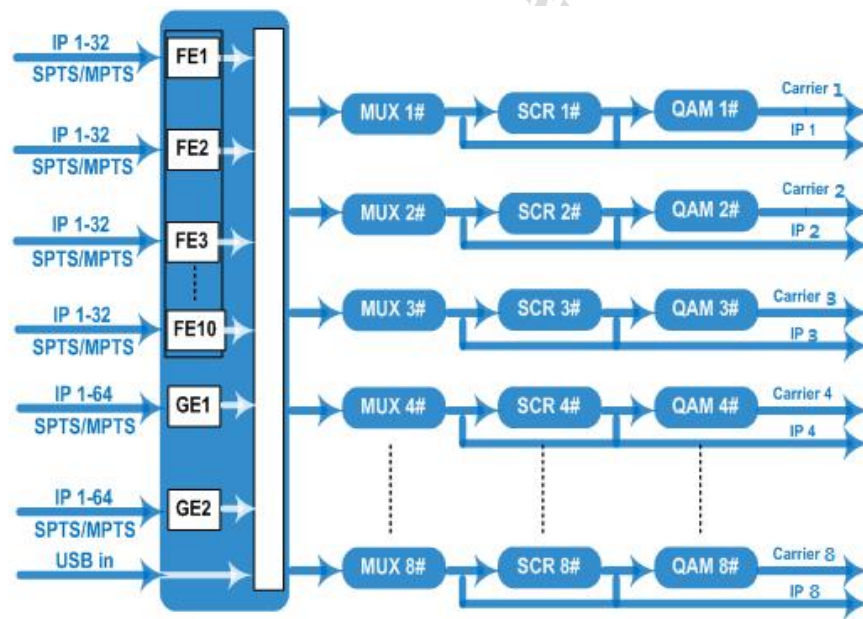
Features

- 10*FE and 2*GE Ethernet IP input ports
- 192 IP (SPTS/MPTS) inputs over UDP/RTP protocol
- Support TS playing via the USB disk (FAT 32)
- up to 748 PIDS remapping per channel
- Support accurate PCR adjusting, PSI/SI editing and inserting, PID Remapping and PID bypass
- Excellent RF output performance index, MER \geq 40db
- 5/8/12 multiplexed TS out over UDP or RTP
- The scrambling function is for DVB-C mode only
- 5/8/12 DVB-C or DVB-T (developing) carriers output
- DVB-C or DVB-T(developing) modulation mode is switchable in Web GUI
- Support IPTV Sync and NTP function
- Support Web-based Network management

Main Application

- Distribute IP source to All TVs Over Existing TV Coax
- Advertising, monitoring, training and educating
- Upgrade all your analog Head-ends to digital TV Solution
- Enterprise, Hotel, campus, hospital, Public Place
- Works with Digital TV transmitter in wireless TV broadcasting
- Low cost Digital TV distribution

Principle Chart



TECHNICAL SPECIFICATIONS

IP Input

IP	128 IP (SPTS/MPTS) input over UDP/RTP, 10*100M Ethernet port 64 IP (SPTS/MPTS) input over UDP/RTP, 2*100/1000M Ethernet ports; (Max 32 IP inputs are available for multiplexing in each output TS)
USB	1 USB input for TS Playing

Multiplexing

Maximum PID Remapping Function	748 input channel PID remapping (automatically or manually) Accurate PCR adjusting Generate PSI/SI table automatically
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Scrambling (Only for DVB-C)

Simul-Crypt CAS number	4
Connection	Local/remote connection
Scramble Standard	ETSI 101 197, ETSI 103 197

QAM Modulating

QAM Channel	1 F typed output port, 75Ω
Modulation Standard	EN300 429
Num of QAM Channels	5/8/12 Carrier
QAM Encoding	ITU-T J.83 Annex A (DVB), Annex B
MER	≥40db
Symbol Rate	5.0~7.0Msps, 1Khz stepping
RF Frequency	50~960 MHz, 1kHz stepping
RF Output level	-25dBm~-1dBm, 0.1dB stepping
QAM Constellations	16/32/64/128/256QAM (Annex A) 64/256QAM (Annex B)
Bandwidth	8M (Annex A); 6M (Annex B)

DVB-T Modulating (developing)

Modulation Standard	EN300744
Num of Cofdm Channels	5/8/12 Carrier
FFT mode	2K, 4K, 8K
Bandwidth	6Mhz, 7Mhz, 8Mhz
Constellation	QPSK, 16-QAM, 64-QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC Code	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥40db
RF Frequency	50~960 MHz, 1kHz stepping
RF OUT	1 F typed output port, 75Ω
RF output level	-28dBm~-3dBm, 0.1dB stepping

Stream out

IP out	5/8/12* IP outputs over UDP/RTP, 1*1000M Ethernet port (DATA Port)
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System function

Management Port	Web-GUI, RJ45, 100M
Language	Chinese/English
Upgrade	Web software upgrade

Environment

Dimensions (W*L*H)	430mm×180mm×44mm (W*L*H)
Temperature	0~45℃ (operation), -20~80℃ (storage)
Power Voltage	AC 100V±10%/60Hz; AC 220V±10%, 50/60H