

FUTV4443D 4 in 1 Mux-Scrambling QAM Modulator



Outline

FUTV4443D is a high performance and cost-effective mux-scrambling QAM modulator designed by FMUSER. It has 8 Tuner and 6 ASI inputs. After multiplexing, scrambling and QAM modulating process, then it gives 4 RF output. To meet customers' various requirements, this device is also equipped with RF input port for mix and IP port to output 4 MPTS.

The device is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.

Key Features

- | Input : 8 DVB-C/S/S2 Tuner + 6 ASI input ports (Version 1)
- | 4 DVB-C/S/S2 Tuner + 6 ASI + 2 IP input port (Version 2)
- | Fully support DVB-C (EN300 429) and ITU-T J.83A/B/C
- | Fully support DVB general scrambling system description ETR289, simulcrypt standard ETSI 101 197 and ETSI 103 197
- | Support 4 channels multiplexing+4 channels scrambling+4 channels QAM modulating
- | Support accurate PCR adjusting
- | Support PSI/SI editing and inserting
- | Excellent RF output performance index, MER 40db
- | Support 4*MPTS output over UDP
- | Support LCD display and keyboard
- | Support Web management, Updates via web and USB

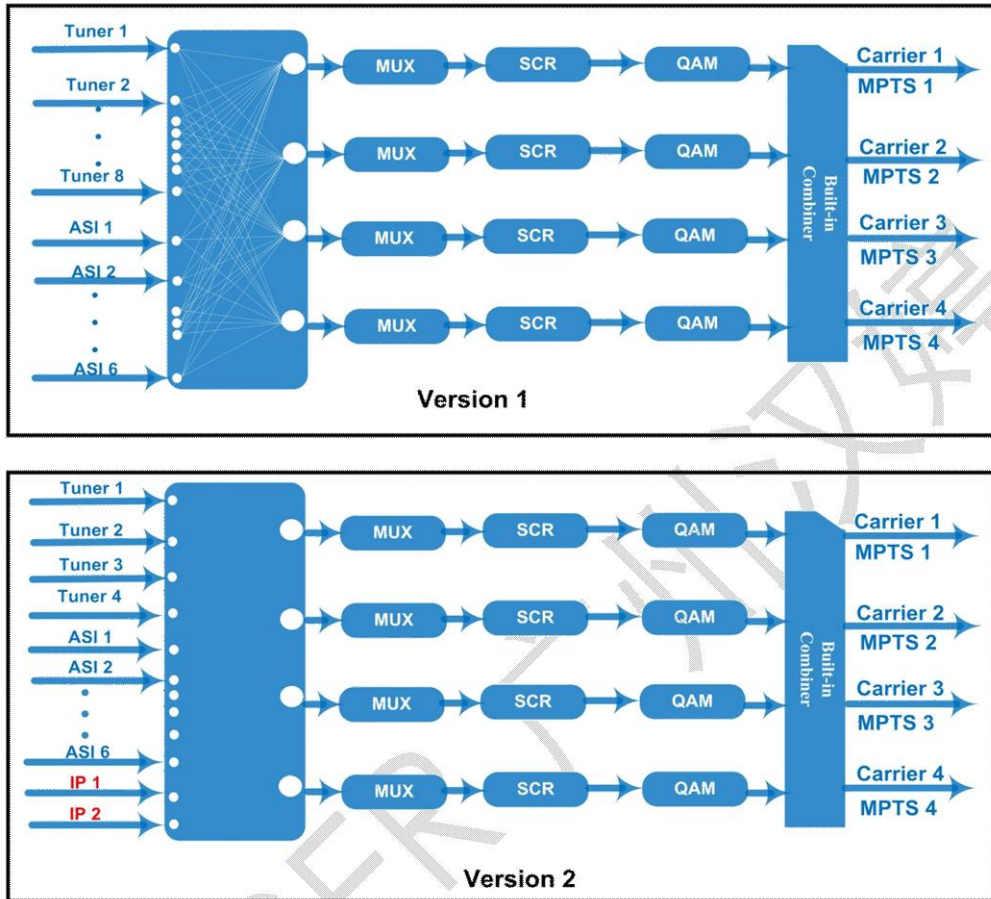
Specifications

| | | | |
|---------------|--|-----------------|----------------------------|
| Input | 8 DVB-C/S/S2 Tuner + 6 ASI input -----Version 1 | | |
| | 4 DVB-C/S/S2 Tuner + 6 ASI + 2 IP input -----Version 2 | | |
| | 2 IP(SPTS/MPTS) input over UDP, RJ45, 1000M, Unicast/Multicast | | |
| Tuner Section | DVB-C | Standard | J.83A(DVB-C), J.83B, J.83C |
| | | Input Frequency | 30MHz-1000Mhz |
| | | Constellation | 16/32/64/128/256 QAM |
| | DVB-S | Input Frequency | 950-2150MHz |
| | | Symbol rate | 2-45Msps |
| | | Signal Strength | -65~-25dBm |

| | | | |
|-------------------------------------|-----------------------|---|--|
| | | FEC Demodulation | 1/2, 2/3, 3/4, 5/6, 7/8 QPSK |
| | DVB-S2 | Input Frequency | 950-2150MHz |
| | | Symbol rate | QPSK 1~45Mbauds 8PSK 2~30Mbauds |
| | | Code rate | 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 |
| | | Demodulation Mode | QPSK, 8PSK |
| Multiplexing | Maximum PID Remapping | 128per input channel | |
| | Function | PID remapping (automatically or manually) | |
| | | Accurate PCR adjusting | |
| Generate PSI/SI table automatically | | | |
| Scrambling | Maximum simulcrypt CA | 4 | |
| | Standard | ETSI 101 197, ETSI 103 197 | |
| | Connection | Local/remote connection | |
| Modulation | QAM Channel | 4 | |
| | Standard | EN300 429/ITU-T J.83A/B/C | |
| | MER | 40db | |
| | RF frequency | 30~999MHz, 1KHz step | |
| | RF output level | -20~0dbm(87~107 dbμV),0.1db step | |
| | Symbol Rate | 5.0Msps~9.0Msps, 1ksps stepping | |

| | | | | |
|---------|--------------------|--|------------|------------|
| | Constellation | 16/32/64/128/256QAM | | |
| | | J.83A | J.83B | J.83C |
| | Constellation | 16/32/64/128/256QAM | 64/256 QAM | 64/256 QAM |
| | Bandwidth | 8M | 6M | 6M |
| System | Local interface | LCD + control buttons | | |
| | Remote management | Web NMS | | |
| | Stream Out | 4*MPTS over UDP out (RJ45, 1000M, Unicast/Multicast) | | |
| | Language | English and Chinese | | |
| | Software Upgrading | Web and USB | | |
| General | Dimension (W*D*H) | 482mm×300mm×44.5mm | | |
| | Weight | 3.7kg | | |
| | Temperature | 0~45 (Operation) ; -20~80 (Storage) | | |
| | Power | AC 100V±10%/60Hz; AC 220V±10%, 50/60HZ | | |
| | Consumption | 25W | | |

Working Principle



Order information

| | Version 1 | Version 2 |
|---------------|-----------|-----------|
| 8 Tuner input | Y | |
| 4 Tuner input | | Y |
| 6 ASI input | Y | Y |
| 2 IP input | | Y |