**Outline**

MDQ13-R QAM Modulator supports 4 channels TS input with optional ASI/DVB-C/DVB-S/DVB-S2 Tuner. It provides one channel tuner and 3 channel ASI inputs, which can multiplex the digital signals, come from satellite or cable and TS come from 3 channel ASI inputs. After multiplexing, the modulator will dispose output channel signals by RS encoding, convolution interlacing and QAM modulating. In addition, the modulator also has the function of real-time bit rate monitoring. Furthermore, this is a professional device integrated with TS multiplexer and digital QAM modulator, which can effectively reduce the system cost. User can also take it as a single digital QAM modulator when only ASI input selected.

**Feature**

Fully comply with EN300 429/ITU-T J.83A/B/C (DVB-C), GB/T170 standard

Symbol rate adjusting range: 5.0Msps~9.0Msps

Five constellation modes: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM

Support 4 channels TS input with optional ASI/DVB-C/DVB-S/DVB-S2 tuner input

Support MPEG-II TS re-multiplexing and SPTS/MPTS multiplexing

Support intelligent null packet deleting and automatically code stream filling and PCR accurate adjusting

PID filtering, re-mapping, simultaneously PSI and SI information refreshing

Monitoring and alarming function

Support NIT insertion

Effective real-time bit rate monitoring

RF output range: 48MHz~960MHz in 1.0 kHz step

RF ATT range: -11dBbm~+5dBm in 0.5dB step

Support LCD display and keyboard

Support NMS operation

**Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| Input | 4 channels TS input with optional ASI/DVB-C/DVB-S/DVB-S2 tuner. | | |
| Re-multiplexing | MPEG-2 TS remultiplexing | | |
| PID remapping(automatically or manually) | | |
| PCR adjusting | | |
| Automatically generate PSI/SI table | | |
| Modulation | QAM Channel | 1 | |
| Standard | EN300 429/ITU-T J.83A/B/C, GB/T170 | |
| Symbol Rate | 5.0~9.0Msps，1ksps stepping | |
| Constellation | 16、32、64、128、256QAM | |
| FEC | RS(204, 188) | |
| RF Output | Connector | F Type, 75Ω impedance | |
| RF Range | 48~960MHz，1kHz stepping | |
| Output Attenuation | -11dBm~+5dBm，0.5dB Stepping | |
| System | Support LCD display, keyboard operation, and NMS operation. English and Chinese version interface conversion | | |
| Support Software Upgrading through Ethernet | | |
| General | Dimension(W\*D\*H) | | 482mm×455mm×44.5mm |
| Weight | | 4.3kg |
| Temperature | | 0~45℃(Operation) ; -20~80℃(Storage) |
| Power | | AC 220V±10%，50/60Hz |
| Consumption | | 25W |