**Outline**

MDQ41 4 in 1 QAM is a cost effective integrated QAM modulator designed by TELECAST Company. This device is integrated up to 4 channel QAM modulating carrier outputs, in which each carrier has independent signal channel encoding and direct RF output. Therefore, the device is featured with excellent RF performance index. It supports 4 channel ASI inputs. Alternatively, this device can take various RF inputs of DVB-S/DVB-C/DVB-T signals by installing the relevant build-in tuners.(user can see the different rear panel illustrations in chapter 2.2) Hence, one PCS 4 in 1 QAM modulator can work as 4 standalone QAM modulators, significantly reducing the network operators’ head-end cost. MDQ41 can also support local and remote control to set its working parameters.

**Features**

1.     Fully complying with EN300429/ITU-T J.83A

2.     4 adjacent channel QAM carrier

3.     4×ASI inputs and 188/204byte TS packet support

4.     DVB-S/-S2/-C/-T RF input (optional)

5.     Accurate PCR adjusting support

6.     16/32/64/128/256 QAM constellation support

7.     Symbol rate adjustment range: 5.0Msps~7.0Msps

8.     PSI/SI editing support

9.     RF output frequency range: 48MHz~860MHz in 1kHz step

10.  RF output level range: -16dBm~0dBm(each carrier) in 0.5dB step

11.  Excellent RF output performance index, MER≥40dB

12.  LCD & Keyboard operation

13.  NMS support

**Specifications**

|  |  |  |
| --- | --- | --- |
| Input | | 4ASI Input, BNC Interface(75Ω)  DVB-S/DVB-S2/DVB-C/DVB-T tuner is optional |
| Modulation | QAM channel | 4 |
| Standard | EN300429/ITU-T J.83A |
| Symbol rate | 5.0~7.0Msps,1ksps step |
| Constellation | 16/32/64/128/256 QAM |
| FEC | RS(204,188) |
| RF  Output | Port | F Type，75Ω impedance |
| Frequency range | 48~860Mhz,1khz step |
| Output level | -16dbm~0dbm(each carrier),0.5db step |
| MER | ≥40db |
| ACLR(adjacent channel leakage ratio) | −60dBc |
| System Function | | LCD/Key board, network management, Chinese and English language |
| Ethernet software upgrade |
| General | Dimensions  (WxDxH) | 482mm×455mm×44.5mm |
| Weight | 6.7kg |
| Temperature range | 0~45℃(operation),-20~80℃(storage) |
| Power Requirements | AC110V±10%,50/60Hz  orAC220V±10%,50/60Hz |
| Power consumption | ≈25W |