

Multifunctional DVB-C Modulator

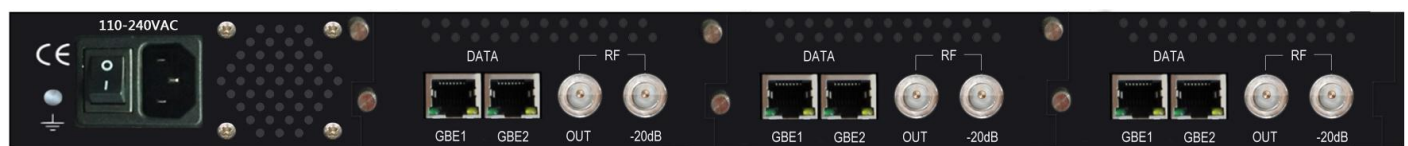
GQ-3680N

This device is a new generation of multi-function modulator (DVB-C). A single IP / modulation board has 2 IP inputs, multiplexing, scrambling and multi-channel modulation functions. The device supports up to 3 boards and 72 frequency points. Modulation. This device adopts "module management function", which can well meet the current and future digital TV system requirements of customers. In terms of management and maintenance, it supports Web-based management.

Front panel :



Rear panel :



Main Features

- Support ITU-T J.83 Annex A / C modulation, output frequency range: 48MHz ~ 866MHz
- QAM mode can work in 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
- Support up to 4 CASs with the same secret and DVB-CSA scrambling
- The reuse part supports automatic generation and manual upload of SI / PSI information;
- The network parameters of data input and output can be flexibly configured, and the input code stream can be automatically detected
- The IP interface supports bursts and uniform input streams, and performs uniform code reformulation on the streams to improve the output stream efficiency
- Single board card with 24 adjacent frequency outputs, the channel is equipped with selective output switch
- Bit rate range of output data: single channel 15.5 ~ 51.6Mbps
- RF single channel output data symbol rate range: 2.2 ~ 7Mbaud / s
- Output level range: 87dBuV ~ 105dBuV (24 channels, 0.25dB step)
- The channel is equipped with a gain fine adjustment function, which can equalize the in-band level, and the level adjustment range is 0 ~ 18dB
- Support import and export of equipment working parameters
- Support web network management, all main control software support remote online upgrade

Technical Specifications

IP Input

| | |
|-----------------------|-----------------------------|
| Number | 2*3 |
| Type | RJ45 |
| Data format | TS OVER IP(UDP) Byte packet |
| MAC | IEEE 802.3 1000BASET |
| Single input bit rate | 0~800Mbps |

RF Output

| | |
|-------------------------------|---|
| Number | 2 * 3 (one main road, one road monitoring) |
| Type | Block F (Imperial), 75Ω |
| RF Frequency | 48MHz ~ 866MHz |
| RF Level | 87-105dBuV (24 channels, 0.25dB step) |
| Modulation error rate (MER) | ≥40dB (QAM mode: 64 / 256QAM symbol rate: 6.857MBaud) |
| SNR (Out of band) | > 50dB |

Streaming multiplexing

| | |
|-------------------------------|---|
| Stream input | Input TS stream number, 0 ~ 500 (single sub-module): The total number of input programs, 0 ~ 512; Single TS includes program number, 0 ~ 64 |
| Stream output | Output TS stream number, 0 ~ 24; Total number of output programs, 0 ~ 512 Single output TS includes the number of programs, 0 ~ 64 |
| Output stream PSI information | Standard, ISO / IEC 13818-1, DVB SI (ESI EN300468); Form type, PAT / PMT is automatically regenerated |

SDT can automatically generate or forward manually uploaded segmented files
NIT / BAT can forward manually uploaded segmented files
Whether TDT / TOT is automatically generated

Streaming scrambling and CAS interface

| | |
|-------------------------------|---------------------|
| Scrambling algorithm | DVB-CSA |
| Number of built-in scramblers | 4 |
| Form update management | CAT、PMT |
| Type | RJ-45 10/100 Base-T |
| Number | 1 |

Power consumption

| | |
|-----------------------|---------------|
| Input voltage range | 110 - 240V AC |
| Input frequency range | 50/60Hz |
| Power consumption | ≤90W |

Working environment

| | |
|------------------------------|----------------------------|
| range of working temperature | 0°C - 45°C |
| Storage temperature range | -20°C - 80°C |
| Ambient humidity range | 10% - 90% , Non-condensing |

Physical index

| | |
|------------------|--------------------|
| Size (W x H x D) | 483mm×44.5mm×450mm |
| Weight | ≤6.0kg |

Typical Application

