

## SUNNISKY QAM100+ Multifunctional QAM DVB-C agile Modulator with the function of DVB-TS Re-Multiplexing

SUNNISKY QAM100+ new QAM DVB-C agile modulator is one new generation of Multifunctional QAM modulator with the function of DVB-TS Re-Multiplexing and DVB-TS scrambling (as Optional), which complies DVB-C standard. It mainly completes the function of 8 ways input DVB ASI-TS Re-Multiplexing and digital QAM agile modulating, then output 1 (**as default**) or 2 (as optional) or 4(as optional) RF channels in the range of 30MHz to 860MHz with adjustable power level, also it has 8 ways ASI-TS Input interfaces to receive DVB-TS (Transport Stream) signals from other digital headend devices, for example, MPEG-2 video/audio encoder like SUNNISKY ENC100IP, or digital TS receivers/decoders like SUNNISKY TS2000-S/T/C, or from any input port (for example, 2 groups E3/DS3 as optional) . And it could realize remote control, all of working parameters to setup and management function by aid of Web browser directly.

With strong function and stable performance, and the features of module design, flexible customization and high expansibility, SUNNISKY QAM100+ is very suitable and the most economical choice for various CADTV headend systems, etc.



### Feature

- Fully complies with DVB-C ETSI / EN 300429 standard
- Support ITU-T J.83 Annex A and B and C
- Constellation range of 16QAM / 32QAM / 64QAM / 128QAM / 256QAM or / 64B QAM / 256B QAM, etc. can be selected
- Adjustable symbol rate from 4.2 to 7MS/s
- 8 ways ASI-TS input
- Adopt the design with extra large-scale cache memory, ASI interface supports both constant and inconstant input bit stream
- Detect and display ASI-TS input and valid code rate
- Support input ASI-TS stream auto-detection
- 188/204 data packet length self-adaptation, and display the data format in real-time
- Support PID filtering, re-mapping and pass-through
- Support PSI /SI collection, analyzing, modification during re-multiplexing
- NIT to map and send
- PCR auto-correction
- Null package filter for input data, and null package stuff for output data
- Bit rate range of single output is 15.5~51.6Mbps
- 2 groups E3/DS3 input (Optional) and output (Optional)
- 1 or 2 or 4 RF adjacent frequency /channels (as optional, **1 RF channel as default**) output in the range of 30MHz to 860MHz
- High RF output level from 95~ 115dBμV with hybrid module IC, and self-adaptation tracking filter circuit design to ensure outstanding performance of out-of-band rejection
- By 10/100BaseT Ethernet, it can realize remote control, network management, upgrade and parameters setup by aid of Web Browser directly or SNMP (optional)
- Support auto-generation or manual editing of network information, as well as local network information sectors to upload
- Support parameters to import or export
- Support monitoring of operation temperature and power supply status in real-time
- Automatically restored after power failure
- LCD display and user friendly operation
- Low power consumption

**Specification**

<b>ASI-TS IN</b>	
Amount	8
Interface	ASI port, BNC connector, 75Ω
TS input available Bit Rate	1.5~51.6Mbps
TS output available Bit Rate	≤270Mbps
Packet Length	188 or 204
Signal Level	800mVp-p
<b>E3/DS3 IN and OUT (Optional)</b>	
Amount	2
E3/DS3 Interface	75Ω, BNC
E3 Bit rate	44.736Mbps
DS3 Bit rate	34.368Mbps
Format	DS3, Framed (G.703) or Unframed (Per G.804/G.752)
<b>QAM Modulating</b>	
Full compliance	DVB-C ETSI / EN300 429
QAM constellations	16, 32, 64, 128, 256 QAM for Annex A; or 64B, 256B QAM for Annex B
Output symbol rate	4.2~7MS/s
Phase noise	≥90dBc/Hz@1KHz; ≥100dBc/Hz@10KHz; ≥105dBc/Hz@100KHz
MER	≥38dB (64QAM, 6.875MS/s symbol rate)
S/N ratio	≥50dB
<b>RF Output</b>	
Amount	1(as default) or 2 (as optional) or 4(as optional)
RF output frequency	Agile 30MHz~860MHz, adjustable
RF output level	RF: 95~115dBμV (Adjustable, 0.25dB step) ; -20dB Test: 75~95dBμV
RF output impedance	BNC, 75Ω
RF harmonics and spurious	58dBc
Accuracy of center frequency	±25KHz
RF output return loss	≥12dB
<b>IP</b>	
Interface	RJ45, 1000Mbps Base-T
Network Protocol	TCP/IP
Function	Management by aid of Web browser, and CAS (optional)
Application	HTTP4.0/HTML1.1/XML/CGI(Web Management) NTP
<b>General</b>	
Operating temperature	5° C~45° C
Power requirement	AC 110~240V, 50Hz±2Hz, 50W
Net weight	3.6Kg
Gross weight	5.2Kg
Net Dimension	483mm×360mm×44.5mm
Dimension	530mm×470mm×135mm

Note: All specifications are subject to change without notice.



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