

## SUNNISKY QAM100 QPSK DVB-S Demodulator+QAM DVB-C agile Modulator

SUNNISKY QAM100 is a two-in-one equipment which includes digital satellite signal receiving and QPSK demodulating and digital QAM agile modulating, then outputting RF signal in the range of 48MHz to 862MHz with adjustable level, also it has ASI IN and SPI IN interface to receive DVB TS (Transport Stream) signal from other digital headend devices, for example, DVB multiplexer, MPEG-2 video/audio encoder, or digital TS receivers/decoders. Digital TS stream signal from any input port (for example, QPSK, DS3-optional, ASI and SPI) can be looped- through to the DS3-Optional port output. The PSI/SI information of the TS signal from any input port (for example, QPSK, DS3, ASI and SPI) can be analyzed and edited via the Ethernet network management, and it could realize remote control and management function by aid of NMS (network management software system) .

SUNNISKY QAM100 is very suitable and the most economical choice for receiving digital TV signal from SDH network with DS3 interface (optional), and various of CADTV headend systems and MUDS system.



### Feature

- Fully complies with DVB-S/ETSI 300421 & DVB-C ETSI / EN 300429 standard
- Support [ITU-T J.83 Annex A/B](#)
- Satellite TV signal receiving and QPSK demodulating from 950~2050MHz frequency range
- Constellation range of 16QAM/32QAM/64QAM/128QAM/256QAM / [64B QAM](#) / [256B QAM](#) selectable
- Adjustable symbol rate from 2 to 7.2MS/s
- 188 or 204 packet length is available
- QPSK, ASI, SPI, DS3(Optional) four input ways
- 2Mbit/s~45Mbit/s QPSK input code rate
- Null package stuff
- PCR correction
- PID filter, PAT and PMT remapping
- NIT and SDT could be modified via network management
- Cascade function (simply multiplexing function) with its ASI IN and QPSK TS, or its ASI IN and SPI IN, or its ASI IN and DS3 IN interface
- ASI IN and ASI loop through port
- IF input and IF output port (Optional)
- DS3 output (Optional)
- Double PLL synthesized channel control
- Low out-of-band noise and high VSB attenuation
- High RF output level from 110 to 113dBuV with hybrid module IC
- Adjustable 48MHz~862MHz agile RF output
- Automatically restored after power failure
- By 10/100BaseT Ethernet, it can realize remote control, network management and parameters setup [as SNMP protocol](#) (Optional)
- LCD display and user friendly operation
- Low power consumption

### Specification

Satellite QPSK Demodulating	
Full compliance	DVB-S/ETSI 300421
Input frequency range	950~2150MHz
Input level	-65~-25dBm
Input impedance	75Ω
Symbol Rate	2~45MBauds

FEC puncture rate	1/2, 2/3, 3/4, 5/6, 7/8 auto-detect
Interleaving depth	$l=12$
LNB Power Supply	13V or 18V
<b>ASI IN/OUT</b>	
Interface	ASI port, BNC connector, 75 $\Omega$
TS input available Bit Rate	$\leq 160\text{Mbps}$
TS output available Bit Rate	$\leq 270\text{Mbps}$
Packet Length	188 or 204
Signal Level	800mVp-p
<b>SPI IN</b>	
Interface	Sub-D 25 PIN, 90~132 $\Omega$
TS input available Bit Rate	1M~54Mb/s
Packet Length	188 or 204
Signal Level	0.1~2.0Vp-p
<b>DS3 IN/OUT (Optional)</b>	
Interface	75 $\Omega$ , BNC
Bit rate	44.736Mbps
Format	DS3, Framed or Unframed (Per G804/G752)
<b>QAM Modulating</b>	
Full compliance	DVB-C ETSI / EN300 429
QAM constellations	16, 32, 64, 128, 256, 64B, 256B QAM
Output symbol rate	2~7.2MS/s
I/Q Amplitude deviation	0.2%
I/Q Phase deviation	$\leq 0.2^\circ$
Phase jitter	$\leq 0.5^\circ\text{RMS}$
<b>RF Output</b>	
RF output frequency	Agile 48MHz~862MHz, adjustable
RF output level	100~113dBuV (Adjustable)
RF output impedance	75 $\Omega$
RF harmonics and spurious	55dBc
Phase noise	$\leq -90\text{dBc/Hz}$
Modulation Error Ratio (MER)	$\geq 35\text{dB}$ @256QAM (Typical)
RF output return loss	$\geq 14\text{dB}$
<b>General</b>	
Operating temperature	0°C~60°C
Power requirement	AC 90~240V, 50Hz $\pm$ 2Hz, 30W
Net weight	5Kg
Gross weight	6.6Kg
Net Dimension	483mm $\times$ 350mm $\times$ 44mm
Dimension	550mm $\times$ 510mm $\times$ 170mm

Note: All specifications are subject to change without notice.



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