

**DeltaGlobal**

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**SAT Q-KON DG-970**

## Key Features:

- **DVB-S2** and **DVB-S** compliant
- **QPSK, 8PSK, 16APSK** and **32APSK**
- **XPE, GSE, ULE, MPE, TS** and **data piping encapsulation**
- **Adaptive equalizer**
- **Multi Stream** and **ACM/VCM** support

## Supported modulation schemes and FEC:

	Outer/Inner FEC	MODCODs											
		Modulation	Rates										
<b>DVB-S</b>	Reed Solomon/ Viterbi	QPSK	1/2	2/3	3/4	5/6	7/8						
		8PSK	2/3	5/6	8/9								
		16QAM	3/4	7/8									
<b>DVB-S2</b>	BCH/ LDPC	QPSK	1/4	1/3	2/5	1/2	3/5	2/3	3/4	4/5	5/6	8/9	9/10
		8PSK	3/5	2/3	3/4	5/6	8/9	9/10					
		16QAM	2/3	3/4	4/5	5/6	8/9	9/10					
		32APSK	3/4	4/5	5/6	8/9	9/10						

## Frame length

<b>DVB-S</b>		188 bytes
<b>DVB-S2</b>	<b>Short Frames</b>	16200 bits
	<b>Normal Frames</b>	64800 bits

## Roll-off factor

- 20 %
- 25 %
- 35 %

**Data filtering:**

- Up to 32 streams in DVB-S2 Multi-stream
- Up to 256 configurable PID filters
- One air MAC address filter per PID or stream
- Output with unique VLAN tag per PID or stream

**Supported encapsulation modes:**

- Ultra Lightweight Encapsulation (ULE)
- Multi Protocol Encapsulation (MPE)
- Extended Performance Encapsulation (XPE)
- Generic Stream Encapsulation (GSE)
- Other Customized Encapsulation Protocol (Optional)

**Output:**

- Auto switching 10/100/1000 Base-T Ethernet interface
- Maximum rate: 133 Mbit/s or 67,000 packets per second

**Monitor and control interfaces:**

- Web based GUI
- Diagnostics report, alarm log and notification system

**Physical Specifications:**

<b>Size</b>		1 RU
<b>Power</b>		400 w
<b>Temperature</b>	<b>Operational</b>	0°C to 40°C
	<b>Storage</b>	-40 to +70°C
<b>Humidity</b>		5% to 85% non-condensing
<b>Processor</b>		Intel Core2 Quad CPU – Q9500 2.83GHz
<b>RAM</b>		4GB
<b>System Architecture</b>		64-bit

Feature		Value
DVB-S2 receiver		Supports one channel in 16-APSK / 32-APSK mode
Antenna inputs		1 x 75-ΩMCX "F" female 1 (QPSK, 8PSK, 16/32-APSK)
Advanced DVBS2 features		VCM, ACM, multiple input streams (MIS)and Generic Stream (GS)
Input return loss		>9dB @ 1-2GHz
Tuning range		950 - 2150MHz
Baud rate		2 - 45MBd
Metrology	RF level(for GSE)	-40 ..-30dBm ±5dB
	MER	0 - 22dB ±2dB
	BER (DVB-S)	Pre Viterbi; Pre RS
	BER (DVB-S2)	Pre/Post LDPC & BCH
LNB supply		Full LNB support with DiSEqC interface and 13V/14V/18V/19V500mAsupply
Modulation standard		DVB-S, DVB-S2
Output Interface		1 * 1Gbps Ethernet