

Technical specifications DV400 IP to ATSC 8-VSB modulator

Single Board OEM & Boxed

General			
Power supply		12 ¹⁾	VDC
Power consumption		12	W
Recommended operating temperature ²⁾		10-45	°C
Maximum allowed operating temperature ^{2) 3)}		55	°C
Declaration of conformity		CE marking	
Dimensions	PCB modulator board	WxHxD 160x100x18	mm
	Boxed	185x107x32	mm
Weight Boxed unit excl. power supply		535	gram
DC Power connector		D-SUB 9	
Ethernet			
Standard		IEEE 802.3-2002	
Max transfer speed		1000	Mbps
Connector type		RJ-45	
Protocols			
TS encapsulation		Pro-MPEG CoP #3 release 2	
Bitrate		Constant (CBR) (Variable bitrate is not supported)	
Modes		UDP ; no RTP ; no FEC	
TS packets per frame		1...7	packet(s)
Latency (excluding Jitter tolerance)		1	ms
IP jitter buffer size		Max. 100	ms
Multicast support		IGMP v2	
Network management		SNMP v2c	
MIB		MIB II, DVSB MIB	

1) Compatible 110-230 VAC to 12VDC wall adapter is available for purchase.

2) Temperature measured by the internal sensor of the DQ801.

This value can be obtained through the user interface or through SNMP commands.

2) Operating in this temperature range is not recommended by STN, as it may reduce MTBF.

Modulation		
Modulation standard	ATSC A/53 part 2 8-VSB	
data rate	19.39	Ms/s
Channel bandwidth	6	MHz
RF Output		
Number of RF channels	4	
RF output Impedance	75	Ω
Return Loss	15...17	dB
Connector Type	F female	
Level range 1 channel on Level range 4 channels on	35 ... 53 35 ... 47	dBmV/channel dBmV/channel
Level accuracy	± 1 ³⁾	dB
RF-Off Attenuation	≥ 70	dB
Spectral purity	spur/channel power ⁴⁾	≥ -60 dB
Phase Noise @ 10 kHz offset	≤ -98 ⁵⁾	dBc/HZ
Wideband Noise	≤ -135	dBm/Hz @3dBm/QAM channel level
RF Frequency		
Tuning range (center freq.)	47...864	MHz
Channel spacing	6...7	MHz
Tuning step Size	1	kHz
Accuracy	5	ppm
Stability	5	ppm
Logging		
Total memory size	256	entries
Logging type	First In First Out	

- 3) The best RF level accuracy is obtained when the higher frequencies are assigned to channel group 1,2 and the lower frequencies to channel group 3,4.
- 4) measured with 4 channels on at 0dBm/channel
- 5) Measured in CW test mode.

These specifications may change without prior notice