

Digital Headend/CATV



SQT Series QPSK/8PSK Transmodulator

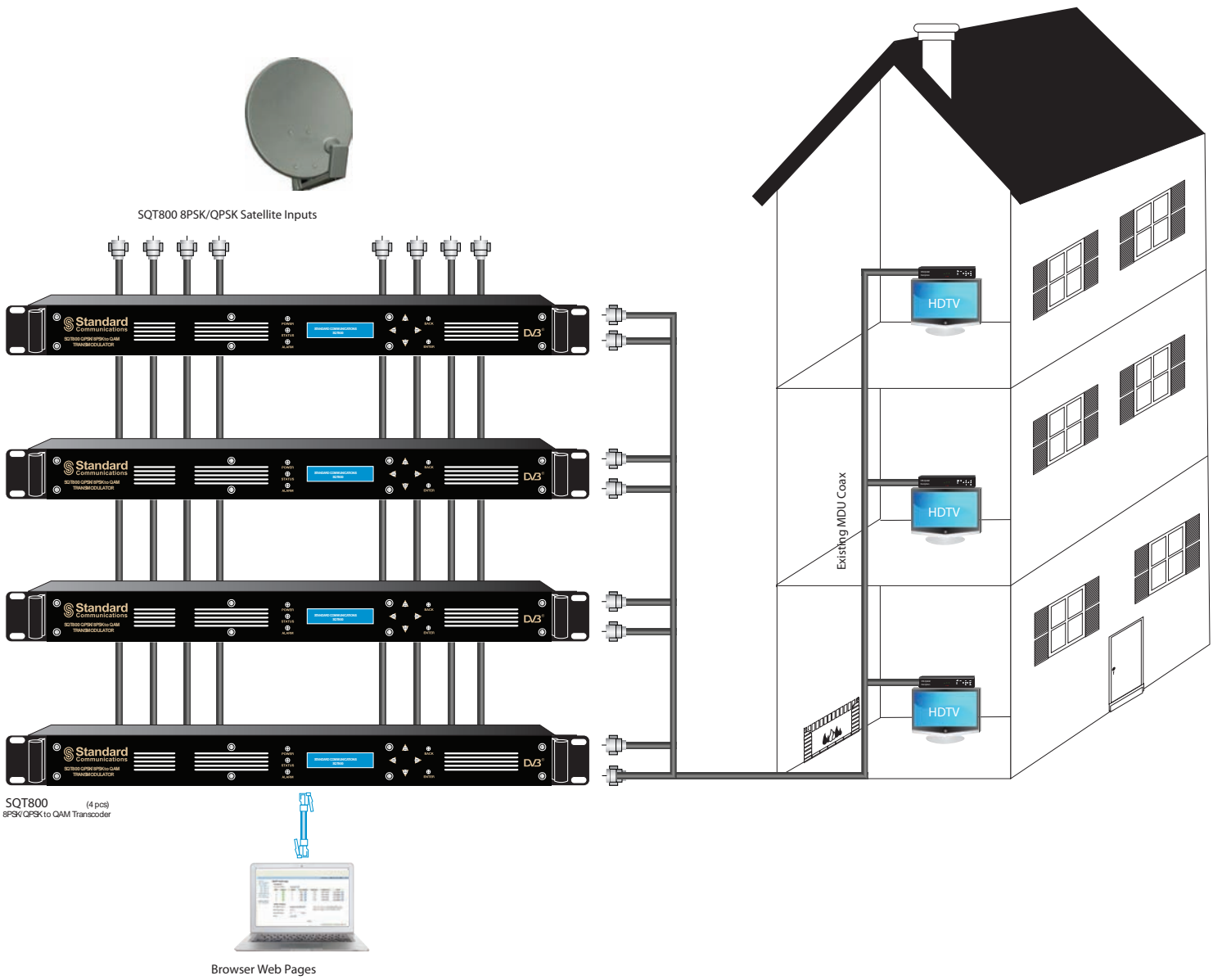
- Tunes and demodulates QPSK/8PSK satellite signals in DVB-S, DVB-S2 modulation including DCII FEC used by HITS and others
- Outputs 4 or 8 transponders of SD or HD video in 4 or 8 QAM-RF channels
- Supports user selection of programs to drop, to reduce stream rate to allow new DVB-S2 high rate transponders to be carried in 256 QAM-RF channels
- Superior QAM performance with unequalized MER at 39dB, high output levels, and return loss >15dB
- Internal web server allows any PC to access web pages for easy configuration and simple local or remote operation
- Dense with up to 8 channels in 1RU, low power for low heat and long life
- ASI input for local content (may be substituted for a satellite signal, 1 in SQT-400, 2 in SQT-800)

Specifications

SATELLITE INPUT S (FROM LNB)		OUTPUT LEVEL	
Frequency Range	950-2150 MHz	(Effective, per Channel)	>45 dBmV
Modulation Rates		(Combined, 4 Channels)	>38 dBmV
DVB-S	1 to 45 Msps 1/2, 2/3, 3/4, 5/6, 7/8	Output Attenuation	0-10 dB (0.5 dB step)
DVB-S2	5-33 Msps QPSK: 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	Output Level Flatness (50-1002 MHz)	±0.75 dB
DCII	1 – 30 Msps 5/11, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/9	Spurious	> 60 dBc
Input Level per Carrier	-20 to -65 dBm	Output Impedance	75Ω
Acquisition Range	±5 MHz	Output Return Loss	>15 dB
Tuner Step Size	100 kHz	Output Connector	F Female
Return Loss	>9 dB	GENERAL	
Impedance	75Ω	Ethernet	10/100BaseT
Connector	F-Female	Ethernet Connector (1)	RJ-45
LNB Power and Control Output	11.5 to 14.0, 16.0 to 19.0 volts, or Off / Blocked and 22kHz / Off	Dimensions	19" (W) x 19" (D) x 1.75" (H)
ASI INPUT S		Operating Temperature	0-40C (32-104F)
Connector	1xBNC (SQT400), 2xBNC (SQT800)	Operating Humidity	5-100% (non-condensing)
QAM-RF OUTPUT S		POWER	
Output Frequency	50-1002 MHz	AC Input	93-254 VAC, 47-63Hz
Channel Bandwidth	Four channels, 6 to 8 MHz	AC Power (4 QAM Outputs)	22W
QAM Modulation Modes	16, 32, 64, 128, 256	(8 QAM Outputs)	44W
QAM Types	ITU-A (DVB), ITU-B (DCII)	DC Input (varies with LNBs)	12V±5%, 4-8A
QAM Symbol Rate	2.24~2.98, 4.48~7.0 Msps	Ordering Information	
PCR Re-Stamping	Auto	SQ T400	QPSK/8PSK Transmodulator - 4 Channels
Channel Plans	EIA, HRC, IRC, Manual	SQ T800	QPSK/8PSK Transmodulator - 8 Channels
Output Frequency Step Size	>10 Hz	X-PS	External Redundant Power Supply
Baud Rate Step Size	<1 Hz		

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Application Diagram



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