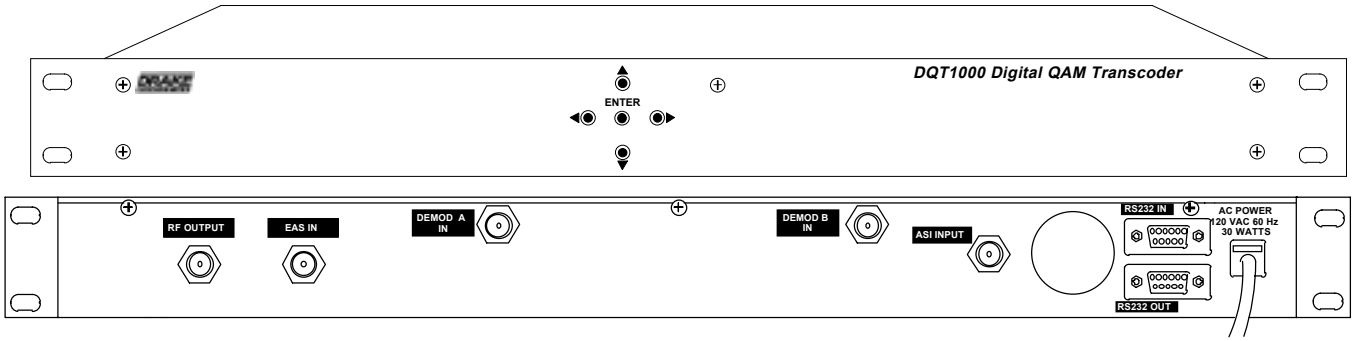
DQT1000 Digital to QAM Transcoder



SPECIFICATIONS:

DEMODULATOR (S)	
DQT1000 ONLY:	Not present - MQM1000
Input Frequency Range:	54 to 864 MHz.
Channel Plans (Menu selectable):	Std. CATV, HRC, IRC, or Broadcast
Input Channel Bandwidth:	6 MHz.
Input RF Level Range:	-28 dBmV to +30 dBmV
Minimum Input Level per Mode:	8VSB: -28dBmV, 16VSB: -25dBmV, 64QAM: -20dBmV, 256QAM: -15 dBmV.
Maximum Input Power (sum of all channels):	Not to exceed -16 dBm.
Input Impedance:	75 Ohms with Return Loss typically 8 dB.
Image rejection:	40 dB.
Adjacent Channel Rejection:	60 dB
Noise Figure:	Less than 12 dB.
Demodulation Modes:	8VSB,16VSB - ATSC 16QAM, 32QAM, 64QAM, 128QAM, or 256QAM - ITUA 64QAM, 256QAM, - ITUB
Symbol Rates:	Commonly used presets and user programmable.
Equalizer Span:	-6 µS to +40 µS.
ASI INPUTS	
MQM1000-Two Inputs	270 Mbps with desired transport stream of
DQT1000 ASI Option:	10.76 MS/s, ATSC, 19.37 Mbps
NULL PACKET PROCESSING:	DQT1000 and MQM1000 (fixed output clock mode)
QAM MODULATOR	
Modulation Modes:	16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM or 1024QAM.
Symbol Rate:	1 Ms/s to 7 Ms/s.
FEC:	ITUA (DVB) or ITUB (DigiCipher II).
I/Q Phase Error:	Less than 1 degree.
Carrier Suppression:	45 dB.
Channel Amplitude Error:	Less than 1 dB.
MER:	Greater than 38 dB with blind equalizer.
ANALOG EAS IF INPUT	
Operating Input Level:	+30 dBmV ±5 dB at 45.75 MHz, 75 Ohms
Auto Switching Level:	+ 20 dBmV minimum.
UPCONVERTER RF OUTPUT	
Output Frequency Range:	54 MHz to 1002 MHz.
Channel Plan:	Std. CATV, HRC, IRC, or Broadcast
FCC offsets:	Automatic, +12.5 or +25 kHz
Frequency Stability:	± 5 ppm.
Maximum Output Level:	+ 61 dBmV minimum, adjustable downward.
Minimum Output Level:	+ 45 dBmV.
Output Level Accuracy:	± 1 dB.
Output Impedance:	75 Ohms with return loss better than 14 dB (within output filter passband).
Spurious Outputs:	-60 dBc from 40 MHz to 1000 MHz.
Broadband Noise:	Less than -12 dBmV (6 MHz BW @ ±12 MHz).
Phase Noise:	-101 dBc @ 10 kHz offset
RS232 CONTROL	
Data Link:	2400, 4800, 9600, or 19,200 baud interface via serial cable.
RS232 Input:	DB-9 connector for connection to modem or PC.
RS232 Output:	DB-9 connector for connection to addtional transcoders.
GENERAL	
Power:	90 - 132 VAC/ 60 Hz, 40 W maximum.
Weight:	7 pounds
Size:	19” W x 1.75” H x 11.5” D.
Operating Temperature:	0 degrees C to + 50 degrees C

Specifications subject to change without notice or obligation.

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