

DTD1000A

Digital Tuner & Demodulator Module



The **DTD1000A** input module tunes any 8VSB or QAM channel between 54 and 1002 MHz, making it ideal for digital channel processing applications where a single digital video signal is received, error-corrected, clocked (at a user-determined fixed rate) and re-modulated on the same or another RF channel.

The **DTD1000A** may be used to convert one off-air ATSC 8VSB signal to a QAM output with rate adjustment or, when used in the processor mode with only one input, the **MEQ1000B** can process ATSC or CATV QAM MPEG-2 inputs.



Features

- Installs in either input bay A, Input bay B or both on a MEQ1000B
- Tunes any 8VSB or QAM channel between 54 and 1002 MHz
- Multiplex with other program streams from various MEQ1000 input modules
- QAM and ASI output from the MEQ1000B
- Custom MPEG program number or VCT (virtual channel tables) from MEQ1000B platform if desired

Compatible with:

1002511B MEQ1000B - Multiplexing Hybrid QAM Modulator

<u>Model</u>	<u>Item #</u>	<u>Description</u>
DTD1000A	1002512A	Digital Tuner & Demodulator Module

TECHNICAL DATA & SPECIFICATIONS

DRAKE DTD1000 DIGITAL TUNER & DEMODULATOR MODULE - 1002512

TUNER AND DEMODULATOR:	
Input Frequency Range:	54 – 1000 MHz
Channel Plan:	Standard CATV, HRC, IRC, or Broadcast
Input Channel Bandwidth:	6 MHz
Input RF Level Range:	-33 to +35 dBmV (8VSB – ATSC) -22 to +35 dBmV (64 QAM) -17 to +35 dBmV (256 QAM)
Input Impedance:	75 Ohms
Input Return Loss:	> 6 dB (Broadcast mode) > 12 dB (CATV mode)
Image Rejection:	80 dB
Adjacent Channel Rejection:	40 dB
Noise Figure:	< 9 dB (Broadcast mode) < 12 dB (CATV mode)
Demodulation Modes:	8VSB – ATSC 64 QAM, 256 QAM (ITU – B) CATV mode
Symbol Rates:	10.76 MS/s, 8VSB 5.057 MS/s, 64 QAM 5.3606 MS/s, 256QAM

OUTPUT:

The DTD1000 Digital Tuner and Demodulator Module is internally connected to the multiplexer of the Drake MEQ1000B Multiplexing Hybrid QAM Modulator. Demodulated program stream output performance specifications can be found in your MEQ1000B instruction manual.

PHYSICAL SPECIFICATIONS:	
Temperature Rating:	0 to + 50 degree C, ambient
Dimensions:	3 1/4" x 1 1/2" x 8" deep
Weight:	0.5 lbs
Power Requirements:	90 to 132 VAC / 60 Hz, 35 W maximum (rating prescribed to the Drake MEQ1000B)

Specifications are subject to change without notice or obligation.

