

PDT550

550MHz Agile Digital Transcoder



- ▶ **82-Channel output range from 54-550 MHz (CATV 2-78, 95-99)**
- ▶ **Broadcast-quality specifications exceed those of fixed-channel digital up-converters**
- ▶ **Microprocessor control enables digital push-button channel selection for ease of installation, configuration, and servicing**
- ▶ **State-of-the-art digital phase-locked loop (PLL) design guarantees precise frequency locking for solid drift-free operation**
- ▶ **High frequency stability (+/-5KHz) and superior phase noise performance minimizes digital artifacts affecting picture quality**
- ▶ **Tracking filter technology provides maximum carrier-to-noise ratio for robust video performance**
- ▶ **45dBmV output for optimum digital carrier performance**
- ▶ **Digital display provides quick channel identification**
- ▶ **Front panel controls and test point enable easy setup and monitoring**
- ▶ **SAW filtered for superior adjacent channel performance enables drop-in channel expansion**
- ▶ **In-band carrier-to-noise ratio >60dB ensures superior picture quality**
- ▶ **Auxiliary AC outlet for convenience**

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The **Pico Macom PDT550** is a rack-mount frequency agile professional re-broadcast grade, microprocessor controlled digital upconverter/transcoder designed specifically for the CATV and private cable TV industries. The **PDT550's** revolutionary design provides a quick and efficient method for adding digital video and high speed data to a private cable system. This transcoder upconverts the QAM I.F. output of cable modem termination systems (CMTS), or the I.F. output of QAM modulators used with a near video on demand (NVOD) servers to any channel between 54-550MHz (channels 2-78, 95-99). Its high output level 45dBmV and rock-solid digitally synthesized PLL circuitry guarantees noise-free and drift-free operation. This agile transcoder provides maximum flexibility, minimum backup costs, and drop-in expandability to any private cable network adding digital capabilities. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

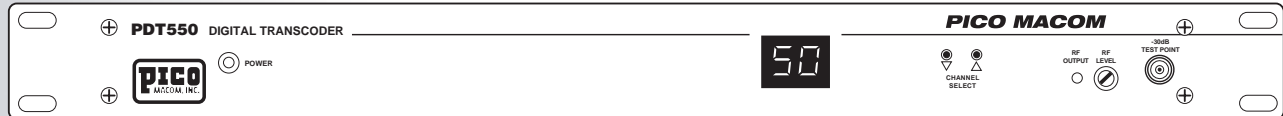
Order From:



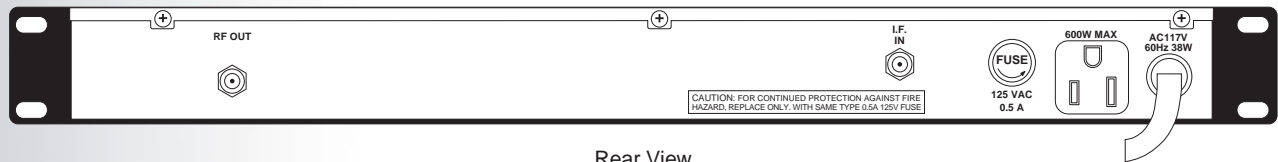
Toll Free: 800-423-2594
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Front View



Rear View

Input

Frequency Range: 44 MHz (Digital Center)
Level: 28 ±2 dBmV
Impedance: 75 Ohms
Return Loss: -15 dB

Output

Output Frequency Range: 54 - 550 MHz (Ch. 2 - 78 and 95-99)
Output Level: 45 ±2 dBmV
Output Adjust Range: 15 dBmV
In-Band C/N: >60 dB
Out-of-Band C/N: >78 dBc
Spurious Output In-Band: >-60 dB
Out-of Band: >-80 dB
Phase Noise: -100 dBc (10 kHz bandwidth)
Frequency Stability: ±5 kHz

General

Power Input: 120 VAC, 60 Hz
Operating Temperature: -10° C to 50° C
Dimensions: 19"(L) x 9"(D) x 1³/₄"(H)
Weight: 7.5 lbs.
Test Point: -30 dB

Ordering Information

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