



HIGHLIGHTS

- **16 kbps to 10 Mbps in 1 bps Steps**
- **BPSK ,QPSK, 8PSK & 16QAM Operation**
- **Third Generation Turbo 3/4 to .95**
- **Demodulators with 36MHz Separation**
- **L-band or 70MHz interfaces**
- **Viterbi FEC**
- **10 BaseT M&C supports SNMP & Telnet**

The AMT-30 modem includes a BPSK, QPSK, 8PSK and 16QAM modulator and demodulator with data rates from 16 kbps to 10 Mbps in 1 bps steps. Its construction is modular and so can be configured for transmit/receive, transmit-only or receive-only options. We can also configure it with two demodulators (dual demodulator option), which can be used for peer-to-peer voice connectivity in DAMA networks or in hub applications for star configured FDMA and frame relay networks. A Quad Demodulator version is also available for the use in multiple return links for DVB-SCPC networks.

The modem modulates carriers directly at L-band, resulting in an efficient uplink system with an extremely pure output spectrum. A 70MHz option, S/W selectable, is also available for integration with existing systems. DC power and high stability 10 MHz reference can be supplied for powering and synchronizing a Block Up Converter (BUC) and Low Noise Block Down Converter (LNB).

Additional stability (control) over the transmission chain is achieved when using Advantech's PowerTrack™ system. Compatible BUC's include a power detector on the output, which the modem monitors, using the results to adjust its own Tx output level in response and maintaining a constant output power from the BUC. This closed loop power control maintains the output power from the BUC stable within ± 1 dB under all environmental conditions.

The AMT-30 provides Viterbi forward error correction (FEC) as standard. An Intelsat compliant Reed Solomon outer FEC codec is available as an option. Or it can be ordered with the Turbo FEC option that greatly improves BER performance and reduces data latency and is interoperable with market standard.

The standard data interface is EIA-530, though other option available is IP enabling with a built-in bridge or the full IP Gateway.

The serial RS-232, RS-485 monitor and control ports provide access to a command line interface, with an Ethernet option for SNMP and Telnet interfaces. In addition, the modem can be configured via an optional front panel or hand held controller.

OPTIONAL FEATURES:

- **Turbo FEC 3/4, 7/8, 0.95 Rates**
- **Dual Demodulator (with 36MHz window), 4-Channel Demodulator**
- **Concatenated Reed Solomon outer/ Viterbi inner FEC**
- **Power Supplies and High Stability Reference for BUC and LNB**
- **Optional Front Panel Display and Keypad (shown)**
- **IP Enabled Modem with 10BaseT Router/Bridge (IP Gateway)**

