

## Converts an Analog Link into a Digital Link

### Applications:

- Easily convert existing analog STL/TSL/ENG backhaul to digital transporting ASI/SMPTE310/T1/E1
- Easily convert analog portion of existing dual carrier links such as Dual Stream/ Twin Stream to digital transporting ASI/ SMPTE310/T1/E1

### Features:

- Variable data rates from 1 to 25 Mbps
- Integrated two input multiplexer/demultiplexer
- Excellent for multi-hop systems
- Multiple interfaces: both SMPTE-310M and DVB-ASI
- FEC includes Viterbi, Reed-Solomon, Interleaving
- Adaptive equalization
- De-jittered SMPTE-310M and DVB-ASI outputs
- T1/E1 Data Pack includes: T1/E1, 2 x RS-232, eight logic inputs, four logic and four form C relay Outputs

### Advantages:

- Uses existing analog infrastructure
- No modification to existing radios required



The Analog Coder2, is a cost-effective solution for upgrading an existing analog microwave link to handle a variety of digital signals and now can accept input data rates from 1 to 25 Mbps. Signals such as the ATSC 19.39 Mbps data stream plus a T1 data pack can be transmitted without any loss in signal quality. The inputs and outputs are DVB-ASI and SMPTE-310M. Features include an integrated multiplexer/demultiplexer and multiple I/Os 2 ASI or 1 ASI and 1 SMPTE-310 signals.

The Analog Coder2 is ideal for single or multi-hop links. HDTV/DTV signals have been transported through a 24-hop repeater system using the Analog Coder2 without any degradation in signal or picture quality. The ATSC/DTV + T1 data pack are modulated onto a 1 Vp-p baseband signal. This baseband output from the modulator is inputted to any analog microwave link. The Analog Coder uses a proprietary modulation design that offers excellent link performance and reliability. Forward error correction using Reed Solomon, Viterbi and Interleaving along with highly efficient adaptive equalization are provided to overcome frequency selective multi-path and adverse environmental conditions. The forward error correction automatically adjusts to adapt to local conditions.