



*FlexMod Digital RF Modulator and Ultra Wideband Converter*

## Description

The FlexMod Digital Modulators with Integrated RF Upconverter when incorporated with the appropriate PC software and Interface provides a cost effective, configurable, high performance method of producing a Digital RF carrier from a transport stream. **Some applications include Video Spoolers, ENG Transmission, Set-top box testing, Catv, Satellite, LMDS, MMDS, and with the appropriate Test Streams Conformance Testing.**

The compact drive bay format will fit in a 1 RU computer or OEM chassis. The FlexMod can be run standalone for integration into OEM products or packaged into compact computer housing. The units are available with a DVB Parallel or ASI input.

The state of the art design allows for high signal to noise ratios and low spurious outputs. The simple RS-232 serial Interface and protocol allows a user to preset values for carrier frequency, symbol rate, FEC Etc. Non-Volatile storage allows for **“Instant on Configuration”** All modulator parameters are implemented in an FPGA and can be programmed to meet changing customer and market requirements.

- **DVB Parallel or ASI Transport IN to QPSK or QAM modulation out**
- **Covers the following IF Frequencies 38Mhz 45Mhz 70Mhz 140 Mhz**
- **CATV Frequencies from 5Mhz to 860Mhz and L-Band from 950Mhz to 1525Mhz**
- **Phase Noise -90 at 1 Khz offset**
- **14 bit 400Mhz DAC**
- **CAN BE Run Standalone or in a computer Drive bay**
- **All DVB & CATV CONSTELLATIONS, FEC, FILTER ROLL OFFS AVAILABLE**
- **NON VOLATILE MEMORY with HIGH SPEED CONFIGURATION VIA SERIAL PORT**
- **2.5 PPM 10 MHZ TCXO REFERENCE ONBOARD**

**WIDE RF MODULATION BANDWIDTH to 36 MHZ**

**SYMBOL RATES 9 MSymbols QAM 30 MSYMBOLS QPSK**

**ATTRACTIVELY PRICED**

**+5 and +12 Volts AT UNDER 2 WATTS**

**OCCUPIED SPACE 4 X 6 X 1 INCH**

**Configuration and Control is RS-232**

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