Multi-Standard VHF/UHF Modulator

☐ All-digital multi-standard modulator

☐ Fully agile from 36 to 1002MHz

☐ Upgradable to support new standards

FEATURES

- Multi-standard modulator for PCI Express with support for most QAM-, OFDM- and VSB-based modulation standards
- Digital upconversion for excellent signal quality without need for calibration
- Supports all constellations and modulation modes for each supported standard
- All-channel upconverter 36 .. 1002MHz fully agile over VHF and UHF band
- Digital channel simulator option
- RF output for direct connection to the antenna input of a digital receiver

KEY ATTRIBUTES

Parameter		Value
RF connector		75-Ω F female
Frequency range		36 .. 1002MHz ±3ppm
Bandwidth (max)		8.0MHz
I/Q sample rate		4.7 .. 9.375MHz
Level	Range	-32 .. -9dBm (QAM) -35 .. -12dBm (OFDM)
	Step size	0.1dB
	Accuracy	±2dB
MER		>40dB
Adjacent channel		-54dB (QAM) -52dB (OFDM)
Phase noise		<-95dBc @ 100kHz
Spectral purity		>50dB @ -9dBm
Wideband noise		35dBµV (B=1MHz)
PCI Express		v1.1; PCIe 1x
OS		XP/2k3/Vista/2k8/7 Linux 2.6

MODULATION STANDARDS

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DTMB*	GB 20600-2006
DVB-C	EN 300 429
DVB-C2*	EN 302 769
DVB-T / DVB-H	EN 300 744
DVB-T2*	EN 302 755
I/Q*	Arbitrary I/Q samples
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

* Option