

USB-2 VHF/UHF Modulator

- ❑ No power adapter required
- ❑ Fully agile from 36 to 1002MHz
- ❑ Channel simulation option

FEATURES

- USB-2 based multi-standard modulator with support for most QAM-, OFDM- and VSB-based modulation standards
- Powered from the USB-2 bus, so no external power adapter is required
- Supports all constellations and modulation modes for each supported standard
- Digital upconversion for excellent signal quality without need for calibration
- Playout of I/Q sample files
- Programmable attenuator
- Free Windows and Linux SDK is fully compatible with other DekTec digital-video output adapters



APPLICATIONS

- Multi-standard test generator
- Demonstrations
- Research and development

KEY ATTRIBUTES

Parameter		Value
RF connector		75-Ω F male
Frequency range		36 .. 1002MHz ±3ppm
Bandwidth (max)		8.0MHz
I/Q sample rate		4.7 .. 9.375MHz
Level	Range	-46 .. -15dBm (QAM) -49 .. -18dBm (OFDM)
	Step size	0.5dB
	Accuracy	±2dB
MER		>40dB
Adjacent channel		-54dB (QAM) -52dB (OFDM)
Phase noise		<-95dBc @ 10kHz
Spectral purity		>50dB (47 .. 1000MHz)
USB port		USB-2
Power (through USB-2)		5V, 500mA
Dimensions (LxWxH)		123 x 62 x 22mm

MODULATION STANDARDS

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

* Option

ORDERING INFORMATION

Type	Description
DTU-215-SP	USB-2 VHF/UHF modulator with <i>StreamXpress</i>
DTU-215-GOLD	DTU-215 with all options

Please refer to www.dektec.com for the latest pricing and a list of distributors and resellers.