

# DTU-215

## FantASI USB-2 VHF/UHF Modulator

### 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

## USB Adapters



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

### Key Attributes

Parameter	Value	
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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
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DAB+*	EN 300 401
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

### Ordering Information

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