DTU-215

AdvancedDigital Inc.

DekTec

USB-2 VHF/UHF Modulator

- ❑ No power adapter required
- ❑ Fully agile from 47 to 1000MHz
- ❑ 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
- For each standard, all modulation parameters are supported
- Direct digital conversion to 47..1000MHz for excellent signal quality
- 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
Frequency range	47 .. 1000MHz ±1ppm
Bandwidth	2.7 .. 8.0MHz
MER (OFDM)	>42dB
RF Connector	75-Ω F
Return loss	≥15dB (47 .. 862MHz)
Level (QAM)	-46 .. -15dBm ±2dB
Level (OFDM)	-49 .. -18dBm ±2dB
Amplitude Step Size	0.5dB
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
ADTB-T / DTMB	GB 20600-2006
CMMB	GY/T 220.1/2-2006
DVB-C	EN 300 429
DVB-T / DVB-H	EN 300 744
DVB-T2	EN 302 755
ISDB-T	ARIB STD-B31
QAM	J.83 Annex A/B/C

OPTIONS

Type	Description
DTC-305-CM	Channel simulation
DTC-370-ISDB	ISDB-T modulation
DTC-371-IQ	I/Q sample playout
DTC-374-DTMB	DTMB modulation
DTC-375-CMMB	CMMB modulation
DTC-378-T2	DVB-T2 modulation

ORDERING INFORMATION

DTU-215-SP   -   USB-2 VHF/UHF modulator with StreamXpress software.
                              Includes modulation options: ATSC VSB, DVB-C, DVB-T / DVB-H, QAM (Annex A/B/C)

AVAILABLE OPTIONS:

DTC-305-CM   -   XpressSim channel-modelling option
DTC-370-ISDB   -   ISDB-T modulation option
DTC-371-IQ   -   IQ samples playout option
DTC-374-DTMB   -   DTMB modulation option
DTC-375-CMMB   -   CMMB modulation option
DTC-378 T2Xpress   -   DVB-T2 modulation option
DTC-379 C2Xpress   -   DVB-C2 modulation option

DTU-215-GOLD   -   USB-2 VHF/UHF modulator with StreamXpress software.
                              Includes options of DTU-215-SP plus all AVAILABLE OPTIONS above

Contact info: sales@advanceddigital.ca   **WEB:** http://www.advanceddigital.ca   Tel: +1 416 479 0480
                                                                                                                          +1 416 848 0715