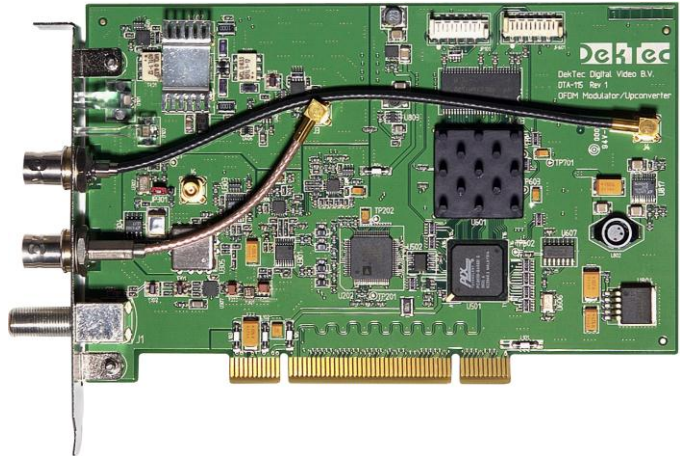


# Multi-Standard Modulator with VHF/UHF Upconverter

- Supports many modulation standards
- Programmable output level
- Bi-directional DVB-ASI port

## FEATURES

- Multi-standard modulator with support for most QAM-, OFDM- and VSB-based modulation standards
- Supports all constellations and modulation modes for each supported standard
- All-channel upconverter 47 .. 862MHz covering full VHF and UHF band
- Direct 12-bit I/Q sample payout
- Output amplifier with programmable 0 .. 31.5dB attenuator in 0.5dB steps
- Use DTA-Plus to extend the output-level range to -110 .. +10dBm
- Independent bi-directional DVB-ASI port
- API is fully compatible with other DekTec digital-video output adapters



## APPLICATIONS

- Multi-standard test generator
- Modulator replacement
- RF output for your (OEM) application

## KEY ATTRIBUTES

Parameter		Value
Frequency range		47 .. 862MHz ±1ppm
Bandwidth		5.0 .. 8.0MHz
MER (OFDM)		≈40dB
Main output	Connector	50-Ω BNC
	Return loss	≥15dB (47 .. 862MHz)
	Level (QAM)	-31.5 .. 0dBm ±2dB
	Level (OFDM)	-34.5 .. -3dBm ±2dB
	Phase noise	<-90dBc @ 10kHz
Monitor output	Connector	75-Ω F
	Return loss	≥15dB (47 .. 862MHz)
	Level (QAM)	-27.5dBm ±3dB
	Level (OFDM)	-30.5dBm ±3dB
	ASI	Connector
	Return loss	≥15dB (5 .. 270MHz)
PCI compliancy		r2.2, 32-bit, 33/66MHz

## 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*	Direct I/Q sample payout
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

\* Option

## ORDERING INFORMATION

Type	Description
DTA-115-GOLD	DTA-115 with all options
DTA-Plus	VHF/UHF attenuator

Several bundles are available, please refer to [www.dektec.com](http://www.dektec.com)