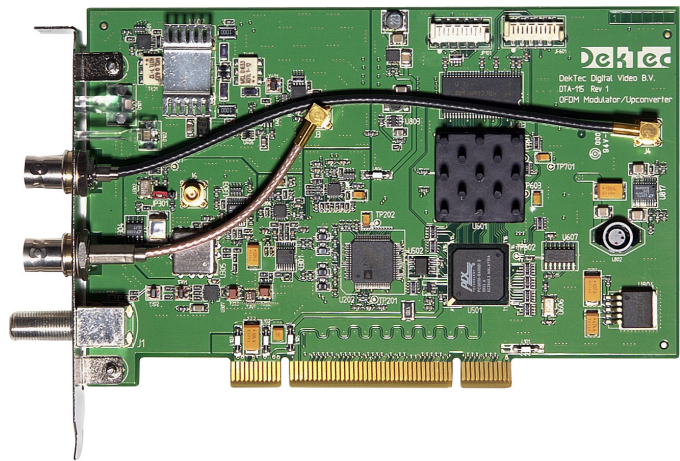


# Multi-Standard Modulator with VHF/UHF Upconverter

- ❑ ATSC, DTMB, DVB-T/H, ISDB-T, QAM
- ❑ 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
- Output amplifier with programmable 0 .. 31.5dB attenuator in 0.5dB steps
- Monitor output for direct connection to the antenna input of a digital receiver
- Bi-directional DVB-ASI port
- Programming interface (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66 MHz bus



## APPLICATIONS

1. RF test generator
2. Modulator replacement
3. RF output for your (OEM) application

## KEY ATTRIBUTES

Parameter		Value
Frequency Range		47 .. 862MHz ±1ppm
Bandwidth		5.0 .. 8.0MHz
MER (OFDM)		≈40 dB
Main Output	Connector	50-Ω BNC
	Return Loss	≥15dB (47 .. 862MHz)
	Level (QAM)	-31.5 .. 0dBm ±1dB
	Level (OFDM)	-34.5 .. -3dBm ±1dB
	Phase Noise	<-90dBc @ 10kHz
Spectral Purity		>50dB (47 .. 862MHz)
Monitor Output	Connector	75-Ω F
	Return Loss	≥15dB (47 .. 862MHz)
	Level (QAM)	-27.5dBm ±2dB
	Level (OFDM)	-30.5dBm ±2dB
DVB-ASI	Connector	75-Ω BNC
	Return Loss	≥15dB (5 .. 270MHz)

## MODULATION STANDARDS

Modulation	Standard
ATSC VSB subsyst.	ATSC A/53E
DTMB	GB 20600-2006
DVB-C	EN 300 429
DVB-T / DVB-H	EN 300 744
ISDB-T	ARIB STD-B31
QAM	J.83 Annex A/B/C

## ORDERING INFORMATION

Type	Description
DTA-115-SP	Multi-Standard VHF/UHF Modulator with <i>StreamXpress</i>
DTC-370-ISDB	ISDB-T software option
DTC-374-DTMB	DTMB software option
DTA-115-ISDB-SP	DTA-115-SP + DTC-370-ISDB
DTA-115-DTMB-SP	DTA-115-SP + DTC-374-DTMB

The latest pricing information and a list of DekTec resellers can be found on [www.dektec.com](http://www.dektec.com). An OEM version of the DTA-115 is available upon request; please contact DekTec for OEM conditions.