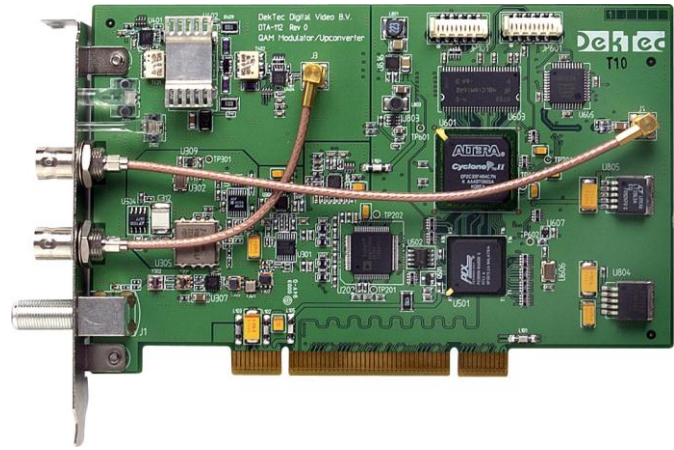


# Low-cost Modulator with VHF/UHF Upconverter

- ❑ Low-cost ATSC/QAM/DVB-T modulator
- ❑ Programmable output level
- ❑ Bi-directional DVB-ASI port

## FEATURES

- Cost-effective alternative for DTA-115 for ATSC, DVB-T/H and QAM-A/B/C
- 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
- Independent 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 66MHz bus
- DVB ID 5822



## APPLICATIONS

- Low-cost test generator
- RF output for your (OEM) application, e.g. hotel server
- Repair of ATSC/QAM/DVB-T set-top boxes

## KEY ATTRIBUTES

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

## MODULATION STANDARDS

Modulation	Standard
ATSC VSB	ATSC A/53E
DVB-C	EN 300 429
DVB-T / DVB-H	EN 300 744
QAM	J.83 Annex A/B/C

## RELATED PRODUCTS

Type	Standard
DTA-110	QAM-A/B/C UHF modulator
DTA-110T	Multi-standard UHF modulator
DTA-115	Multi-standard modulator with VHF/UHF upconverter

## ORDERING INFORMATION

Type	Description
DTA-112-SP	VHF/UHF modulator with <i>StreamXpress</i>

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-112 is available upon request; please contact DekTec for OEM conditions.