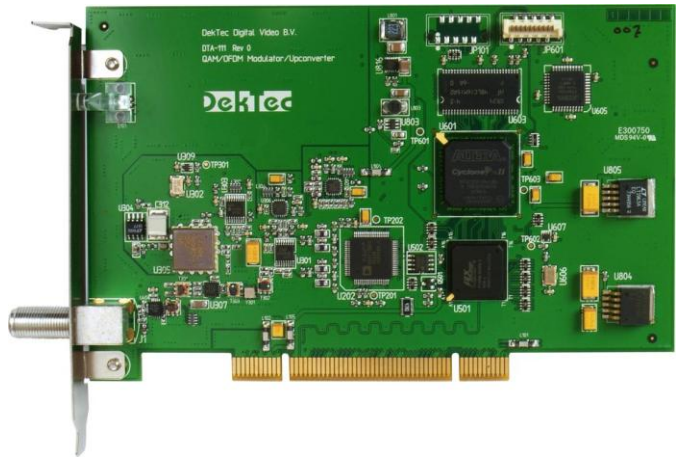


# Multi-Standard Modulator with VHF/UHF Upconverter

- ❑ Low-cost multi-standard modulator
- ❑ Fixed output level
- ❑ Upgradable to support new standards

## 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
- Fixed output level of -15.0dBm for QAM and -18.0dBm for OFDM
- RF output for direct connection to the antenna input of a digital receiver
- Programming interface (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66MHz bus



## APPLICATIONS

- General purpose test modulator
- SMATV, hotel server, shows and exhibitions
- OEM applications

## KEY ATTRIBUTES

Parameter	Value
Frequency range	47 .. 862MHz ±1ppm
Bandwidth	5.0 .. 8.0MHz
MER (OFDM)	≈38dB (QAM) ≈40dB (OFDM)
Connector	75-Ω F
Return loss	≥15dB (47 .. 862MHz)
Level (QAM)	-15dBm (+34dBmV)
Level (OFDM)	-18dBm (+31dBmV)
Phase noise	<-90dBc @ 10kHz
Spectral purity	>50dB (47 .. 862MHz) >90dB (muted)
PCI compliancy	r2.2, 32-bit, 33/66MHz
OS	XP/2k3/Viasta/2k8/7 Linux 2.6

## MODULATION STANDARDS

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
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
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

\* Option

## ORDERING INFORMATION

Type	Description
DTA-111-SP	VHF/UHF modulator with <b>StreamXpress</b>

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-111 is available upon request; please contact DekTec for OEM conditions.