

Multi-Standard VHF/UHF Modulator

- ❑ All-digital multi-standard modulator
- ❑ Fully agile from 36 to 1002MHz
- ❑ Upgradable to support new standards

FEATURES

- Multi-standard modulator for PCI Express with support for most QAM-, OFDM- and VSB-based modulation standards
- Digital upconversion for excellent signal quality without need for calibration
- Supports all constellations and modulation modes for each supported standard
- All-channel upconverter 36 .. 1002MHz fully agile over VHF and UHF band
- Digital channel simulator option
- RF output for direct connection to the antenna input of a digital receiver
- Free Windows and Linux SDK (DTAPI) is fully compatible with other DekTec digital-video output adapters



APPLICATIONS

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

KEY ATTRIBUTES

| Parameter | | Value |
|------------------|-----------|--|
| RF connector | | 75-Ω F female |
| Frequency range | | 36 .. 1002MHz ±3ppm |
| Bandwidth (max) | | 8.0MHz |
| I/Q sample rate | | 4.7 .. 9.375MHz |
| Level | Range | -32 .. -9dBm (QAM) -35 .. -12dBm (OFDM) |
| | Step size | 0.1dB |
| | Accuracy | ±2dB |
| MER | | >40dB |
| Adjacent channel | | -54dB (QAM) -52dB (OFDM) |
| Phase noise | | <-95dBc @ 100kHz |
| Spectral purity | | >50dB @ -9dBm |
| Wideband noise | | 35dBμV (B=1MHz) |
| PCI Express | | v1.1; PCIe 1x |
| OS | | XP/2k3/Vista/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 |
| I/Q* | Arbitrary I/Q samples |
| ISDB-T* | ARIB STD-B31 |
| QAM | J.83 Annex A/B/C |

* Option

ORDERING INFORMATION

| Type | Description |
|---------------|--|
| DTA-2111-SP | VHF/UHF modulator for PCI Express with StreamXpress |
| DTA-2111-GOLD | DTA-2111 with all options |

Please refer to www.dektec.com for the latest pricing and a list of distributors and resellers.