DTU-315

All-Standard All-Band Modulator for USB-3

- Modulator for all popular DTV standards
- Fully agile over VHF, UHF and L-band
- USB cable supplies power, data, control

FEATURES

- Pocket-size modulator for all popular satellite, cable and terrestrial standards
- Fully agile from 36 to 2150MHz, covering VHF, UHF and L-band
- Modulation bandwidth up to 70MHz
- Excellent signal quality
- Single USB cable to the DTU-315 supplies power, data and control
- Supports all constellations and modulation modes for each supported DTV standard
- Digital channel simulator option including multipath echo and AWGN insertion
- F and BNC cable assemblies included
- Use with DekTec's *StreamXpress* for easy generation of RF test signals
- Free Windows SDK (DTAPI) for writing your own custom application



APPLICATIONS

- RF test generator in your R&D lab or factory for developing, qualifying or repairing any equipment with a DTV antenna input
- Portable demo set for TV receivers, easy to carry to customer demos, trade shows, etc.
- TV transmission or distribution using modulated signals in shops, hotels, hospitals etc.

KEY ATTRIBUTES

| Parameter | Value |
|-----------------|---|
| RF connector | 75-Ω micro-BNC female |
| Frequency range | 36 2150MHz |
| Bandwidth (max) | 70MHz |
| I/Q sample rate | 0.08 70Msps |
| RF level | -4525dBm (0.5dB steps) [;] |
| MER (typical) | >40dB |
| Phase noise | <-105dBc @ 10kHz |
| Spectral purity | >50dB |
| USB port | USB 3.2 Gen 1** Also called USB 3.0 or USB 3.1 Gen 1 |
| USB connector | Micro-B female |
| OS | Windows 7, 8/8.1, 10 Linux ≥2.6.18, 3.x, 4.x |

* For OFDM standards: up to 1GHz; for single-carrier standards up to 2GHz; above 2GHz the output level is max. 5dB lower.

** Must be a real USB-3 port; the DTU-315 will not operate with USB-2. options, and for a list of distributors and resellers.

MODULATION STANDARDS

| Standards |
|---|
| ADTB-T, ATSC, ATSC-M/H*, ATSC 3.0*, CMMB*, |
| DAB(+)*, DRM(+)*, DMB-T/H*, DVB-C (QAM-A), |
| DVB-C2*, DVB-CID, DVB-S(2), DVB-S2X*, DVB-T, |
| DVB-T2 single-PLP, DVB-T2 multi-PLP*, I/Q samples*, |
| ISDB-S*, ISDB-S3*, ISDB-T*, QAM-B (J.83 Annex B), |
| QAM-C, T-DMB* |

* Option

ORDERING INFORMATION

| Туре | Description |
|--------------|---|
| DTU-315-SP | All-standard all-band modulator for USB-3 with <i>StreamXpress</i> player/test-generator software |
| DTU-315-GOLD | DTU-315 with all current and future modulation options |
| DTR-315-RACK | 1U 19"-rack mounting kit for holding up to 8x DTU-315 |

Please refer to dektec.com for the latest pricing of the DTU-315 and its

© 2020 DekTec Digital Video BV dektec.com Quality Tools and Components for Digital-TV Professionals

DTU-315 Product Leaflet lulv 2020

Dystrybucja: elmier.pl elmier@elmier.pl +48 500 167 343