# Multi-Standard VHF/UHF Receiver for PCI Express

- ❏ Universal receiver for VHF/UHF band
- ❏ Advanced demodulator API available
- ❏ Optimized for Software Defined Radio

## FEATURES

- Tuner, I/Q demodulator and sample-rate converter, optimized for use with SDR technology (Software Defined Radio = demodulation in software)
- Several software demodulators available, including DVB-C2 and DVB-T2, with features and measurements exceeding those of consumer demodulator chips
- Hardware sample rate converter for obtaining I/Q samples at a convenient rate
- MER measurements in OFDM up to an accuracy of 42dB
- Demodulated stream and measurements available through free Windows and Linux SDK (DTAPI)
- PCI Express x1; Low profile



## APPLICATIONS

- RF network monitoring with measurements
- Universal receiver
- Front end for SDR experiments

## KEY ATTRIBUTES

| Parameter | | Value |
|---|---|---|
| RF input connector | | 75-Ω "F" female |
| Input return loss | | >8dB |
| Tuning range | | 42 .. 870MHz |
| Input sensitivity | | -90 .. -20dBm |
| Bandwidth | | 1.7/5/6/7/8/10MHz |
| I/Q sample rate | | 1.25 .. 40Msps |
| I/Q sample size | | 16-bit I + 16-bit Q |
| SNR | | 50dB |
| Metrology | MER | 10 .. 42dB |
| | RF level | -90 .. -20dBm |
| | Constellation | Yes |
| Power consumption | | 4.7W typ |
| PCI-Express label | | PCIe x1 |

## MODULATION STANDARDS

| Modulation | Standard |
|---|---|
| DAB+ | EN 300 401 |
| DVB-C2 | EN 300 429 |
| DVB-T | EN 302 744 |
| DVB-T2 | EN 302 755 |
| ISDB-T | ARIB STD-831 |
| I/Q samples | Arbitrary I/Q samples (optional) |
| T2MI | Demodulation of DVB-T2 to T2MI (optional) |

## ORDERING INFORMATION

| Type | Description |
|---|---|
| DTA-2131-DP | Multi-standard VHF/UHF receiver with DtTV and DtGrabber+ |
| DTA-2131-SX | Multi-standard VHF/UHF receiver with DtTV, DtGrabber+ and StreamXpert |
| DTA-2131-SXA | Multi-standard VHF/UHF receiver with DtTV, DtGrabber+, StreamXperrt and advanced RF analysis |
| DTC-361-IQ | I/Q sample reception option |
| DTC-362-T2MI | T2MI output option |