

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 ATSC 3.0, 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 to 870MHz
Input sensitivity		-90 to -20dBm
Bandwidth		1.7/5/6/7/8/10MHz
I/Q sample rate		1.25 to 40Msps
I/Q sample size		16-bit I + 16-bit Q
SNR		50dB
Metrology	MER	10 to 42dB ±2dB
	RF level	-90 to -20dBm ±3dB*
	Constellation	Yes
Power consumption		4.7W typ
PCI-Express label		PCIe x1

*Accuracy of DAB(+) RF level measurement depends on adjacent channels. The DAB(+) RF level is being measured over 8MHz.

MODULATION STANDARDS

Modulation	Standard
ATSC 3.0	ATSC Doc. A/322
DAB+	EN 300 401
DVB-C2	EN 300 429
DVB-T	EN 302 744
DVB-T2	EN 302 755 v1.3.1 (with T2 lite)
I/Q samples	Arbitrary I/Q samples
ISDB-T	ARIB STD-831

ORDERING INFORMATION

Type	Description
DTA-2131	VHF/UHF receiver
DTC-360-RXA	Advanced demodulator option
DTC-361-IQ	I/Q sample reception option
DTC-362-T2MI	T2MI output option

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