

Multi-Standard VHF/UHF Receiver for PCI Express

DekTec DTA-2131



- High performance tuner and I/Q sampler
- Handles signals up to 10-MHz bandwidth
- Optimized for Software Defined Radio

KEY 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 to 870MHz
Input sensitivity		-90 to -20dBm
Bandwidth		1.7/5/6/7/8/10MHz
I/Q sample rate		1.25 to 40MSPS
SNR		50dB
Metrology	RF level	-90 to -20dBm
	MER	10 .. 42dB
	Constellation	Yes
PCI-Express label		PCIe x1

MODULATION STANDARDS

Type	Description
DVB-C2*	EN 300 429
DVB-T2*	EN 302 755
I/Q samples	Arbitrary I/Q samples

* Option

ORDERING INFORMATION

Type	Description
DTA-2131-DP	Multi-Standard VHF/VHF 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 DP, SX and Advanced RF Analysis

Sencore is the preferred distributor of DekTec in North America.