DTA-2131

Cable/Terrestrial SDR Receiver for PCIe

- Universal receiver for VHF/UHF band
- Demodulators for multiple standards
- Advanced RF measurements

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-T2, QAM-A/B/C with features, performance and advanced RF measurements exceeding those of consumer demodulator chips
- Hardware sample rate converter for obtaining I/Q samples at a convenient rate for I/Q recording or software demodulation
- Demodulated stream and advanced RF measurements available through free Windows and Linux SDK (DTAPI)

APPLICATIONS

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

KEY ATTRIBUTES

Parameter		Value
RF input connector		75-Ω "F" female
Tuning range		42 to 870MHz
Input sensitivity		-90 to -20dBm
Input return loss		>8dB
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 gen1 x1

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

RECEPTION

Modulation standards
ATSC VSB, ATSC 3.0 (requires DTC-360-RXA), DAB+, DVB-C, DVB-C2, DVB-T, DVB-T2, ISDB-T, QAM-A/B/C
Arbitrary I/Q samples (requires DTC-361-IQ)

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.