



DTA-2132

High-End Satellite Receiver for PCIe

Professional-grade satellite receiver card with high-quality RF measurements.
Ideal for satellite monitoring, modulator testing and high-speed data distribution.

Key Characteristics

| | |
|---------------|--|
| RF frequency | L band 950 to 2150MHz |
| Constellation | Up to 256APSK/APSK-L |
| Symbol rate | Up to 72MBd |
| Data rate | Up to 425Mbps |
| Measurements | RF level: -80 to -20dBm MER: 3 to 35dB Constellation diagram |

Inputs and Outputs

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|-------------|---------------|
| RF in | 75-Ω F female |
| PCI Express | PCIe gen2 x4 |

Modulation Standards

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|----------------------------|--|
| Included with base product | DVB-S DVB-S2 DVB-S2X I/Q sample capturing |
|----------------------------|--|

PC Support

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|-----|---|
| OS | Windows 10, 11 Windows Server 16, 19, 22 Linux ≥2.6.18, 3.x, 4.x, 5.x |
| CPU | Core i7-4xxx or above Or AMD equivalent |

Software

| | |
|-------------|---|
| StreamXpert | Our industry-standard transport-stream analyzer |
| DekTec SDKs | Create your own application |

Documentation



DTA-2132
Leaflet

[Comparison of DTA-2132 with other receivers](#)

Pricing

The DTA-2132 is part of the DekTec-for-Developers range. Attractive OEM arrangements are available, please contact [DekTec](#) to discuss your options.

DTA-2132 € 1.716 Stock: 25+
High-end satellite receiver for PCIe

Features

FPGA-based DVB-S2/S2X demodulator (no CPU cycles consumed) with calibrated channel-power and MER measurement.

Supports VCM, ACM, MIS (multiple input streams), GS (generic stream) with access to baseband frames (BBFRAMEs) in L.3 format.

Hardware demodulator can be bypassed to obtain I/Q samples for recording or SDR.

Applications

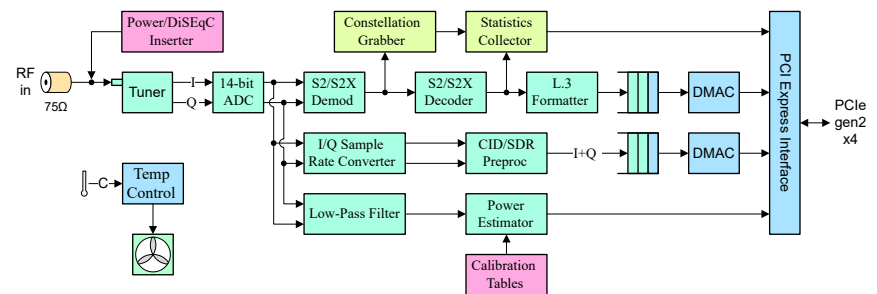
Creating comprehensive satellite-network monitoring solutions for DVB-S2 and DVB-S2X.

Validation of DVB-S2/S2X modulators.

High-speed satellite data distribution.

Block Diagram

The main path of the DTA-2132 consists of a wide-band L-band tuner, 14-bit I/Q analog-to-digital converter, DVB-S2/S2X demodulator and decoder, L.3 packetizer, FIFO, DMA controller and PCIe interface. Constellation points are sampled after the demodulator, while LDPC error-rate and other statistics are gathered after the decoder.



A secondary I/Q path is used for multiple purposes: estimating the spectral characteristics of the input signal and sending I/Q samples to a user-space application for SDR, recording or other purposes. A third path low-pass filters the I- and Q samples and estimates the signal power, corrected by calibration tables.

The DTA-2132 also contains an 18V/600mA LNB power inserter with over-current protection, as well as a DiSEqC-2.0 22-kHz LNB-control signal inserter. Finally, a temperature monitoring unit controls fan speed to keep the board cool.

Related Products



DTA-2131B – Multi-Standard Cable/Terrestrial Receiver for PCIe

Complementary SDR receiver for cable and terrestrial standards in the VHF and UHF band.



DTA-2115B – All-Standard VHF/UHF/L-Band Modulator for PCIe

The "other way around": DekTec's high-end modulator, supporting (amongst others) DVB-S2/S2X and DVB-CID modulation.

DTA-2132 Bird's Eye View

🔗 The DTA-2132 comes with a full-height PCIe bracket mounted and a low-profile bracket in the box (except for OEM sales). Use DTA-2132-LP to order a DTA-2132 with low-profile bracket mounted.

DTA-2132-SX € 2.922 Stock: 25+

High-end satellite receiver for PCIe with StreamXpert stream analyzer software.

Prices exclude applicable sales tax, shipping charges and customs duties. Quantity discounts may be available, please request a quotation.



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