

All-Standard, All-Band Modulator for PCI Express

DekTec DTA-2115



KEY FEATURES

- High-end test modulator for PCI Express with support for every popular digital TV and digital audio modulation standard
- All-digital modulation for flexibility and excellent signal quality
- Wideband upconverter 32...2186MHz, fully agile over VHF, UHF and L-band
- Digital channel simulator option including multipath echo and phase noise simulation
- Ultra low phase noise
- 10-MHz/1pps input for SFN operation or board-to-board synchronization
- Free Windows and Linux SDK (DTAPI) is compatible with DekTec's other modulators and digital-video output adapters

APPLICATIONS

- The ultimate test modulator in the lab
- DVB-S2X modulation
- Up to 64-MHz DVB-C2 channel bundling

ORDERING INFORMATION

Type	Description
DTA-2115-SP	Multi standard, all-band modulator for PCIe with StreamXpress
DTA-2115-GOLD	DTA-2115-SP with all options

RELATED PRODUCTS

Type	Description
DTA-2107	DVB-S/DVB-S2/ISDB-S L-band modulator for PCIe
DTA-2111	Low cost multi-standard VHF/UHF modulator for PCIe

- Fully agile from 32 to 2186MHz
- Extended 72-MHz bandwidth
- 10-MHz/1-pps GPS synchronization input

KEY ATTRIBUTES

Parameter		Value
Main output	RF connector	50-Ω SMA female
	RF level*	-50 .. 0dBm
	Step size	0.5dB
Monitor output	RF connector	75-Ω F female
	RF level	-45dBm
10-MHz/1pps input	2x 50-Ω BNC female	
Frequency range	32 .. 2186MHz	
Symbol rate**	0.088 .. 85MBd	
I/Q sample rate**	0.088 .. 85MHz	
Bandwidth (max)	72MHz	
Transmit MER	>43dB	
Phase noise	<-116dBc @ 10kHz	
Spectral flatness	0.5dB	
Spectral purity	>50dB	
PCI Express label	PCIe3 x1	
OS	XP/2k3/Vista/2k8/7/8 Linux 2.6	

* RF level range depends on modulation type

** If the DTA-2115 is used in a PCIe gen 2 slot, certain sample rate restrictions will apply

MODULATION STANDARDS

Standards
ADTB-T, ATSC, ATSC-M/H*, CMMB*, DAB(+)*, DMB-T/H*, DVB-C, DVB-C2*, DVB-H, DVB-S, DVB-S2, DVB-S2X*, DVB-T, DVB-T2*, I/Q*, ISDB-S*, ISDB-T*, QAM-B, QAM-C, T-DMB*

* Option

Sencore is the preferred distributor of DekTec in North America.

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