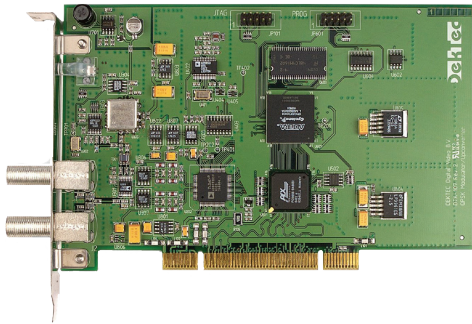


DVB-S Modulator and RF Upconverter

DekTec DTA-107



KEY FEATURES

- DVB-S modulator compliant to ETS 300 421
- Integrated L-Band upconverter with on board 950 to 2150-MHz synthesizer
- Wide range of symbol rates allows for both MCPC and SCPC operation
- RF output can be connected directly to digital satellite receiver
- Complete on board channel coder with Reed-Solomon encoder, convolutional interleaver and base band shaping filter
- Programmable convolutional rate: 1/2, 2/3, 3/4, 4/5, 5/6, 6/7 or 7/8
- Software interface compatible with other DekTec digital video output adapters
- PCI rev 2.2, 32 bit, 33 or 66 MHz bus
- Comes with free:
 - Windows & Linux device driver and software Development Kit for developing custom applications
 - Example source code for stream player
 - DtLoop application to copy packets from an input adapter to the DTA-107

APPLICATIONS

- With the StreamXpress (DTC-300) software as a standalone disk player that generates a DVB-S modulated signal for typically one or more digital satellite receivers
- With DtLoop as a modulator replacement. An input adapter (e.g. the DTA-120 DVB-ASI Input PCI card) is used to read a transport stream input, and DtLoop copies the stream real-time to the DTA-107
- As DVB-S output adapter in your (OEM) application

- Complete DVB-S modulator
- L-Band upconverter 950 to 2150 MHz
- Direct connection to satellite receiver

KEY ATTRIBUTES

Parameter		Value
Modulation		DVB-S
Useful bit-rate range		0 to 72.5Mbit/s
Symbol rate	Range	0 to 214Mbit/s
	Accuracy	±25ppm
	Resolution	<50mBd
RF output	Connector (2x)	F type, 75Ω
	Frequency range	950 to 2150MHz
	Accuracy	±1ppm
	Step Size	200kHz
	Output level	-27 ±3dBm
	Spurious	>40dB
	Return loss	≥15dB

RELATED PRODUCTS

Type	Description
DTA-107S2	DVB-S2 Modulator/Upconverter
DTA-110	QAM/ATSC Modulator UHF
DTA-110T	DVB-T Modulator UHF
DTA-112	QAM/DVB-T Modulator VHF/UHF
DTA-115	Multi-Standard Modulator VHF/UHF
DTC-300	StreamXpress Player software

ORDERING INFORMATION

Type	Description
DTA-107	DVB-S Modulator/Upconverter (PCI)
DTA-107-SP	DTA-107 with StreamXpress

Sencore is the preferred distributor of DekTec in North America.