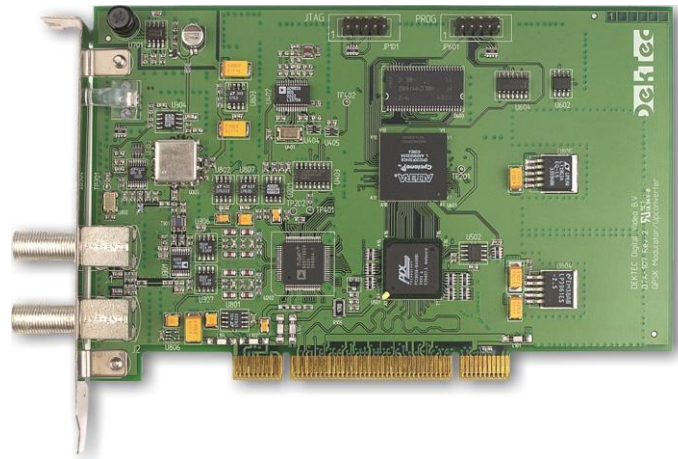


## DVB-S Modulator and RF Upconverter

- ❑ Complete DVB-S Modulator
- ❑ L-Band Upconverter 950 .. 2150 MHz
- ❑ Direct Connection to Satellite Receiver

### FEATURES

- DVB-S modulator compliant to ETS 300 421
- Integrated L-Band Upconverter with on-board 950 .. 2150-MHz synthesiser
- 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



### 3 WAYS TO MAKE USE OF THE DTA-107

1. With the *StreamXpress* (DTC-300) software as a stand-alone disk player that generates a DVB-S modulated signal for – typically – one or more digital satellite receivers
2. 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
3. As DVB-S output adapter in your (OEM) application

### KEY ATTRIBUTES

Parameter		Value
Modulation		DVB-S
Useful Bit-Rate Range		0 .. 72.5Mbit/s
Symbol Rate	Range	0.088 .. 45MBd
	Accuracy	$\leq \pm 25$ ppm
	Resolution	<50mBd
RF Output	Connector (2x)	F type, 75 $\Omega$
	Frequency Range	950 .. 2150MHz
	Accuracy	$\leq \pm 1$ ppm
	Step Size	200kHz
	Output Level	-27 $\pm 3$ dBm
	Spurious	>40dB
	Return Loss	$\geq 15$ dB

### 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	<i>StreamXpress</i> Player software

### ORDERING INFORMATION

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