

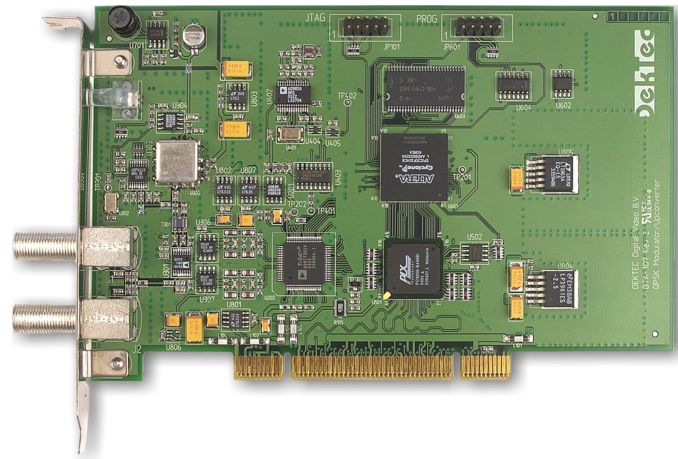


QPSK Modulator and RF Upconverter

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

FEATURES

- QPSK modulator compliant to DVB-S as defined in 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-2000/XP/2003 & 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 QPSK-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 QPSK output adapter in your (OEM) application

KEY ATTRIBUTES

Parameter		Value
Modulation		QPSK
Useful Bit-Rate Range		0...72.5 Mbit/s
Symbol Rate	Range	0.088...45 MBd
	Accuracy	≤ ±25 ppm
	Resolution	<50 mBd
RF Output	Connector (2x)	F type, 75 Ω
	Frequency Range	950...2150 MHz
	Accuracy	≤ ±1 ppm
	Step Size	200 kHz
	Output Level	-30 ±3 dBm
	Spurious	>40 dB
	Return Loss	≥ 15 dB

RELATED PRODUCTS

Type	Description
DTA-107S2	DVB-S2 Modulator/Upconverter
DTA-110	QAM Modulator/Upconverter
DTA-110T	DVB-T Modulator/Upconverter
DTA-120	DVB-ASI Input Adapter (PCI)
DTA-122	DVB-SPI LVDS Input Adapter (PCI)
DTC-300	StreamXpress Player software

ORDERING INFORMATION

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

The latest pricing information and a list of DekTec resellers can be found on www.dektec.com.