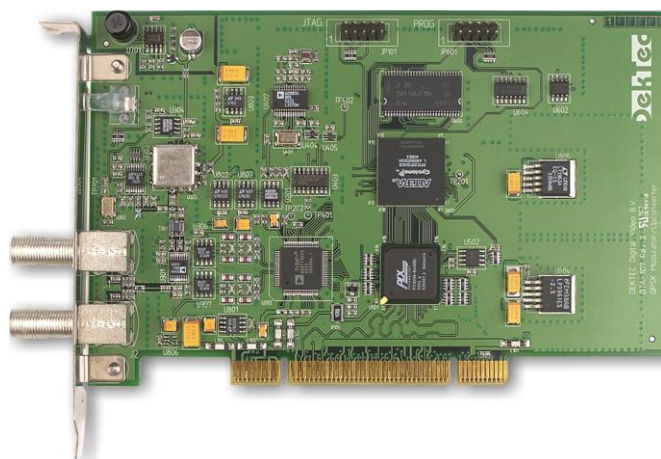# DTA-107S2

DekTec

DVB-S2 Modulator with L-Band Upconverter

- ❑ Complete DVB-S2 modulator
- ❑ L-Band upconverter 950 .. 2150 MHz
- ❑ Direct connection to DVB-S2 receiver

FEATURES

- DVB-S2 modulator compliant to ETSI EN 302 307

- Integrated L-Band upconverter with on-board 950 .. 2150-MHz synthesiser

- Complete broadcast-services modulator with BCH encoder, LDPC encoder, bit interleaver, constellation mapper and base-band shaping filter

- Supports all DVB-S2 defined code rates: 1/4, 1/3, 1/2, 2/5, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10

- Can be operated in DVB-S mode

- DTA-107 can be upgraded to DTA-107S2 in the field with a simple procedure

- Free Windows/Linux SDK (DTAPI) that is fully compatible with other DekTec digital-video output adapters

- PCI rev 2.2, 32 bit, 33 or 66MHz bus

APPLICATIONS

- File-based DVB-S2 stream generator with output upconverted to L-band

- DVB-S/S2 modulator replacement

- DVB-S2 output for your (OEM) application

KEY ATTRIBUTES

Parameter		Value
Modulation		QPSK, 8PSK
Useful bitrate range		0 .. 120Mbit/s
Symbol rate	Range	1 .. 45MBd
	Accuracy	≤±25ppm
	Resolution	<50mBd
RF output	Connector (2x)	F type, 75Ω
	Carrier frequency	950 .. 2150MHz
	Accuracy	≤±1ppm
	Roll-off factor	0.35
	Output level	-30 ±3dBm
	Spurious	>40dB
	Return loss	≥15dB

PC REQUIREMENTS

Platform	Windows-XP/2k3/Vista, Linux
Processor	P4@2.0Ghz (minimum) Core (2), Core i7 (or AMD equiv)
RAM	512MB

ORDERING INFORMATION

Type	Description
DTA-107-SP	DVB-S modulator/upconverter with *StreamXpress*
DTA-107S2-SP	DVB-S2 modulator/upconverter with *StreamXpress*
DTC-372-S2	DVB-S2 firmware/software upgrade option for DTA-107

The latest pricing information and a list of DekTec resellers can be found on **www.dektec.com**. An OEM version of the DTA-107 is available upon request; please contact DekTec for OEM conditions.