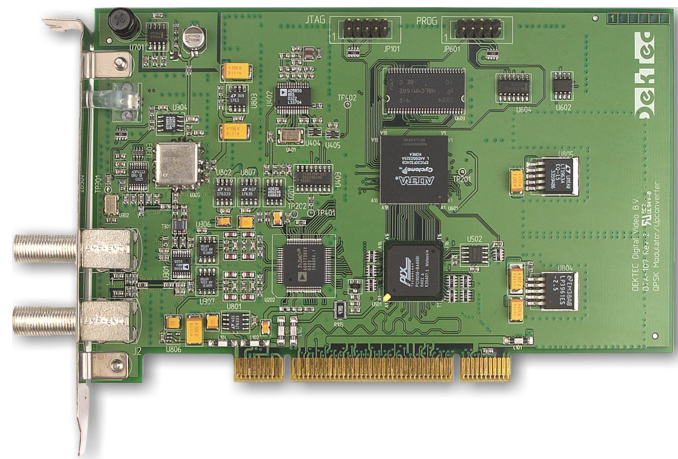


# DVB-S.2 Modulator and RF Upconverter

- ❑ Complete DVB-S.2 Modulator
- ❑ L-Band Upconverter 950...2150 MHz
- ❑ Direct Connection to DVB-S.2 Receiver

## FEATURES

- DVB-S.2 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-S.2 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 software interface (DTAPI) that is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66 MHz bus



## APPLICATIONS

- File-based DVB-S.2 stream generator with output upconverted to L-band
- DVB-S/S.2 modulator replacement
- DVB-S.2 output for your (OEM) application

## KEY ATTRIBUTES

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

\* Modulation constellations 16APSK, 32APSK, roll-off 0.25, 0.20 and ACM are not supported in the initial product but will be provided as a free firmware upgrade during 2008

## PC REQUIREMENTS

Platform	Windows-2000 / XP / 2003
Processor	P4@2.0 Ghz (minimum) P4@3.0 Ghz (recommended)
RAM	512 MB

## ORDERING INFORMATION

Type	Description
DTA-107S2	DVB-S.2 Modulator/Upconverter
DTA-107S2-SP	DTA-107S2 with <i>StreamXpress</i>
DTC-372-S2	DVB-S.2 firmware / software option for DTA-107

The latest pricing information and a list of DekTec resellers can be found on [www.dektec.com](http://www.dektec.com).