



The ADV-8500 is a high quality professional, cost-effective DVB-S/S2 modulator designed for broadcast contribution, DSNG and distribution applications over satellite and microwave links.

ADV-8500 is equipped with IP input and 4 ASI inputs (3 for hot backup).

It outputs L-band RF in the range of 950 - 2150MHz (optionally IF output: 50-960 MHz – model ADV-8500-F).

ADV-8500's features also include BISS scrambler, 10MHz input/output reference clock, built-in power supply for the BUC (Block Up Converter) and more.

ADV-8500 adopts user-friendly web-based operation interface to effectively manage the device.

With its high performance ADV-8500 DVB-S/S2 modulator is widely used for broadcasting, interactive services, news gathering and other broadband satellite applications.

Applications

- Digital satellite Uplinks for Distribution, Contribution, DSNG /ENG Mobile news gathering
- Digital Microwave Links (Mobile and STL)

Features

- Fully complies with DVB-S2 (EN302307) and DVB-S (EN300421) standard
- 4 ASI inputs supporting hot backup (3 for backup) and IP (100M) signal input
- ADV-8500: QPSK, 8PSK, 16APSK, 32APSK Constellations
- ADV-8500-F: QPSK, 8PSK Constellations
- ADV-8500: RF CID setting
- Constant temperature 10MHZ internal crystal oscillator with 0.1ppm stability
- External 10 MHz reference input
- 10MHz reference clock output
- ADV-8500: Built-in 24V power supply for BUC
- BISS scrambling
- Supports local and remote control via front panel or web
- ADV-8500: Output frequency range: 950~2150MHz with 10KHz step
- ADV-8500-F: IF Output frequency range: 50~960MHz with 1KHz step

Specifications

ASI Input	Supports both 188/204 Byte Packet TS Input
	4 ASI Inputs, Supporting Hot Backup
	Connector: BNC, Impedance 75Ω
IP Input	1*IP Input (Rj45, 100M TS Over UDP)
10MHz Input	1*10Mhz Input (BNC Interface)
RF Output (ADV-8500)	RF Range: 950 ~ 2150 MHz, 10KHz stepping
	RF Output Level: -26 dBm~-0 dBm, 0.5dB step
	MER≥40dB
	Connector: N type, impedance 50Ω
IF Output (ADV-8500-F)	Range: 50 ~ 960 MHz, 1KHz step
	Output Level setting: -28.5dBm~+3 dBm, 0.5dB Step

	MER \geq 40dB		
	Connector: N type, impedance 50 Ω		
Channel Coding and Modulation	Standard	DVB-S	DVB-S2
	Outer coding	RS Coding	BCH Coding
	Inner coding	Convolution	LDPC Coding
	Constellation	QPSK	QPSK,8PSK, 16APSK,32APSK
	FEC/ Convolution Rate	1/2, 2/3, 3/4, 5/6, 7/8	QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10
	Roll-off Factor	0.2, 0.25, 0.35	0.2, 0.25, 0.35
	Symbol Rate	0.05~45Mbps	0.05~40Mbps(32APSK); 0.05~45 Mbps(16APSK/8PSK/QPSK)
	BISS Scramble	Mode 0, mode 1, mode E	
System	Web-server NMS		
	Ethernet software upgrade		
	24V power output for BUC through RF output port - ADV-8500		
Miscellaneous	Dimensions	482mm \times 410mm \times 44mm	
	Weight	4.3 KG	
	Temperature	0~45 $^{\circ}$ C (operation), -20~80 $^{\circ}$ C (storage)	
	Power	100-240VAC \pm 10%,50Hz-60Hz	
	Consumption	25W	

Ordering Info

ADV-8500 - DVB-S/S2 Modulator with RF (L-band) output

ADV-8500-F - DVB-S/S2 Modulator with IF output