

ZMOD - X1

Professional Satellite Modulator (DVBS, DVBS-2)



The ZMOD-X1 modulator series is an all inclusive unit that is loaded with features most needed by broadcasters. In it's most basic form, the unit comes with DVBS (QPSK), DVBS2 (QPSK and 8 PSK) modulation schemes, IF output, L-band output and ASI & IP input all as standard features. 16 and 32 APSK modulation are provided as

options. Taking mobile and portable systems in mind, the unit comes with clear and user friendly front panel control. Size and weight are significantly less than any unit on the market. The unit can also be monitored and controlled using any web browser.

► Features & Benefits

- DVBS-QPSK/DVBS2 (QPSK, 8 PSK) standard.
- Clear and user-friendly front panel control.
- Front panel monitor port.
- Only 10" deep and weighs 4.5lbs.
- Rear panel Ethernet port for user interface.

► Specifications

Common:		IF/L – Band Interface:	Control Interfaces:
Signal Format:	CCM (VCM/ACM optional for DVB-S2)	L–band Output:	SNMP:
Modulation Format & FEC Rate:	DVB-S: DVB-S QPSK, FEC rates 1/2, 2/3, 3/4, 5/6, 7/8		SNMPv2. Accessed over Ethernet physical interface for control using Evertz VistaLINK® or 3rd party SNMP systems.
DVB-SNG:	8PSK, FEC rates 2/3, 5/6, 8/9	IF Output:	Web Interface:
DVB-S2:	QPSK, FEC rates 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 4/5, 3/4, 5/6, 8/9, 9/10		Accessed over the Ethernet physical interface.
	8PSK, FEC rates 3/5, 2/3, 3/4, 5/6, 8/9, 9/10	Output power step:	Alarms:
	16APSK (Optional), FEC rates 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	Output power stability: +/- .5dB	Complete suite of parameters monitored.
	32APSK (Optional), FEC rates 3/4, 4/5, 5/6, 8/9, 9/10	Output power accuracy: +/- 0.5 dB	Access via GUI or SNMP.
Roll Off Factor:		Monitor Output:	Comprehensive alarm history. Alarm relay contact – DB9 sockets
DVB-S:	0.1 to 0.5	50Ω BNC–Female	
DVB-S2:	0.2, 0.25, 0.35	L–band, 950–1750 MHz (when L–band output selected)	Physical:
		–30 dB, +/- dB	Size:
Performance:		Return Loss:	19"W, 1U (1.75")H, 11"D, deep, EIA standard 19" rack mountable
Min Symbol Rate:	100 kBaud	Spurious:	Weight:
Max Symbol Rate:	30 MBaud (45 MBaud optional)	Phase Noise:	4.5lbs
Min Symbol Rate Step:	1 Baud		Environmental:
User Packet Size:	188 bytes	Input Interfaces:	Operating Temp.: 0° to 50° C
		DVB-ASI:	–10° C to 55° C
		Ethernet:	Storage Temp.:
		10 MHz Frequency:	Humidity, Operating:
		Power:	10% to 80% relative humidity non condensing
			Electromagnetic:
			Compatibility:
			Safety:
			EN 61000–1, EN 61000–6–3
			FCC Title 47, Part 15
			EN 61010–1
			UL 61010–1

► Ordering Information

ZMOD-X1	DVB-S/S2 modulator, 8PSK 30 MBaud max, IP and ASI input, L-Band and IF output
ZMOD-X1-45	DVB-S/S2 modulator, 8PSK 45 MBaud max, IP and ASI input, L-Band and IF output

Please consult Evertz for other options as needed including 16APSK, 32APSK and VCM/ACM.