



MODULATOR DVB-S/S2/S2X

Model Type: **MOD3403A**

Product Overview

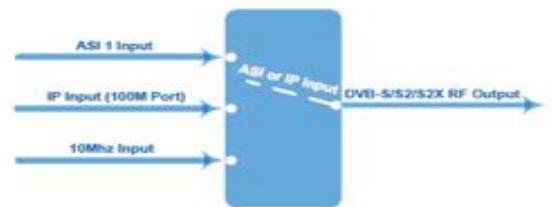
Italspazio MOD3403 is a high-performance modulator developed according to DVB-S2X (EN302 307-2) standard which is the standard of third generation of the European broadband satellite telecommunication. **It is to convert the input ASI and IP signals alternatively into digital DVB-S/S2/S2X RF output.**

BISS scrambling mode is inserted to this DVB-S2X modulator, which helps to safely distribute your programs. It is easy to reach local and remote control with NMS software and LCD in the front panel.

With its high cost-effective design, Italspazio MOD3403 DVB-S2X modulator **is wildly used for broadcasting, interactive services, news gathering and other broadband satellite applications.**

Key Features

- Fully complying with DVB-S (EN300 421), DVB-S2 (EN302 307) and DVB-S2X (EN 302 307-2) standard
- 4 ASI inputs supporting backup (3 for backup)
- Support IP (100M) signal input
- QPSK, 8PSK, 8APSK, 16APSK, 32APSK Constellations
- Support RF CID setting
- Constant temperature crystal oscillator, as high as 0.1ppm stability
- Support coupling 10Mhz clock output through RF output port
- Support 24V power output through RF output port
- Support BISS scrambling
- Support local and remote control with Web-server NMS
- Support SFN TS transmission



SYSTEM	
Interface	SNMP/Web NMS - Ethernet software upgrade
Language	English
Vcc output	24V power output through RF output port

GENERAL	
Power	AC 100V - 240V, 25W
Dimension & Weight	482 x 410 x 44 mm & 4.5 Kg
Temperature	0 °C - 45 °C (operation), -20 °C - 80 °C (storage)





TECHNICAL SPECIFICATION

ASI input	Supporting 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)			
10 MHz Input	1*10MHz Input (BNC type)			
RF Output	RF Range: 950 ~ 2150 MHz, 10KHz step			
	Output Level Attenuation: -0 to -31.5 dBm with 0.5dB step			
	MER ≥ 40dB			
	Connector: Ntype, impedance 50Ω			
Channel Coding and Modulation	Standard	DVB-S	DVB-S2	DVB-S2x
	Outer coding	RS coding	BHC coding	BHC coding
	Inner coding	Convolution	LDPC coding	LDPC coding
	Constellation	QPSK	QPSK, 8PSK, 16APSK, 32APSK	QPSK, 8PSK, 8APSK, 16APSK, 32APSK
	FEC	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	QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 23/36, 25/36, 13/18 8APSK: 5/9-L, 26/45-L 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9, 77/90 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10, 2/3-L, 32/45, 11/15, 7/9
	Roll-off Factor	0.2, 0.25, 0.35	0.2, 0.25, 0.35	0.05, 0.10, 0.15, 0.2, 0.25, 0.35
	Symbol Rate (Mbps)	0.5 ~ 45 Msps	0.5 ~ 40 (32APSK); 0.5 ~ 45 (16APSK/8PSK/QPSK)	0.05 ~ 40 Msps(32APSK); 0.5 ~ 45 Msps (8PSK/QPSK/8APSK/16APSK)
	Frame Length	Short (16200) and Long (64800)		
	BISS scramble	Mode 1, Mode E		