

Polaris S2 Modulator™

Teleport Oriented Transport Stream Modulator with Two ASI Inputs and DVB-S2 or DVB-S Output. Front Panel Controls and Web Based Remote Management. Ideal for Satellite News Gathering and Teleport Operators.



Front

Rear



Features

- Standards: DVB-S2 (EN302 307) and DVB-S (EN300 421)
- 2 ASI inputs support hot backup with loop out
- One external 10 MHz reference clock input
- RF output: 950~2150 MHz
- Output Levels: 0 to 31.5 dBm, in steps of 0.5 dB
- Excellent RF performance, MER \geq 36 db
- Constant temperature crystal oscillator, as high as 0.1 ppm stability
- Supports local and remote control
- LCD/Keyboard front panel controls
- NMS/SNMP management

Applications

- Broadcasting
- DSNG (Digital Satellite News Gathering)
- Data broadcast

Overview

Teleports are starting points for satellite based communications. They employ powerful RF signals and use large dishes to link up with the geostationary satellites hovering nearby. DVB-S2 has become the de facto modulation scheme used to transmit from teleports to satellites. DVB-S2 can accommodate 50 to 60 Mbps of bandwidth and thus numerous channels. This is an excellent and cost effective choice for teleports.

The Polaris S2 Modulator is a high performance modulator compatible with the DVB-S2 (EN302307) standard which adopts advanced framing structure, channel coding and modulation technology, increasing transmission ability over 50% more than DVB-S modulators under the same transmission conditions. It also provides a more powerful receiving ability in the same spectral efficiency. In addition, it is backwards-compatible with the DVB-S (EN300 421) modulating standard.

The Polaris S2 Modulator can be widely used for broadband satellite applications such as Broadcasting, Interactive Services, News Gathering, etc.



Computer Modules, Inc.

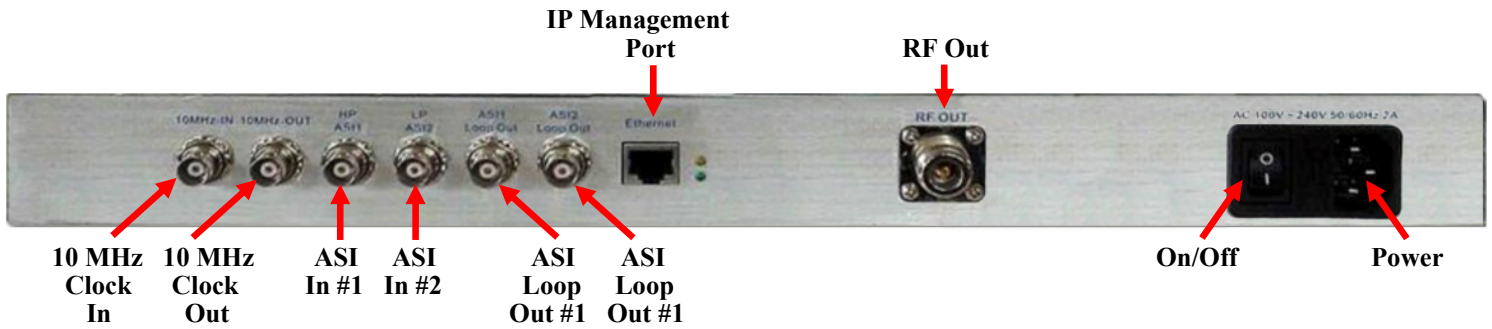
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Inputs/Outputs



Sample GUIs – Coming Soon

Specifications

ASI Inputs

Inputs:	2 ASI inputs, supporting hot backup with loop out
Connectors:	BNC, impedance 75Ω
Packet Length:	188 or 204

RF Output

Frequency:	950 ~ 2150 MHz (continuously adjustable)
Output Level Attenuation:	-31.5 ~ 0 dB (continuously adjustable)
Maximum Output Level:	0 dB
MER:	≥36dB
Connector	N type, impedance 50 Ω

Channel Coding & Modulation

	DVB-S	DVB-S2
Outer Coding:	RS coding	BCH coding
Inner Coding:	Convolutional	LDPC coding
Code Rates:	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
Constellation:	QPSK	QPSK, 8PSK
Roll-off Factor:	0.2, 0.25, 0.35	0.2, 0.25, 0.35
Symbol Rate:	0.05 ~ 45 Msps	0.05 ~ 30 Msps (8PSK) 0.05 ~ 45 Msps (QPSK)

Physical and Power

Dimensions:	18.98 x 16.14 x 1.73 inches (W x D x H) 482 x 410 x 44 mm (W x D x H)
Weight:	TBD
Power Supply:	100-240VAC, 50/60 Hz, 25W
Operating Temperature:	0°C ~ +45°C (32°F ~ 113°F)
Storage Temperature:	-20°C ~ 80°C (-4°F ~ 176°F)
Conformities:	FCC, CE, RoHs

Ordering Info

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