

## Orbiter™ – Transport Stream Monitoring

### Description

The Orbiter™ Transport Stream Monitoring (TSM) device is designed to monitor service availability and to perform basic monitoring on the Transport Stream. The Orbiter TSM handles visualization (both the services as the PSI/SI tables), bit rate measurements, PCR jitter measurements, and TR 101 290 error reporting.

The Orbiter TSM is able to handle 2 ASI Transport Streams simultaneously.

The Orbiter TSM can be managed via its easy and intuitive GUI. The GUI of the Orbiter TSM is a pure HTML-based user interface that can be opened by means of a standard web browser. A full integration is done in the ROSA™ Network Management System.

The Orbiter TSM is fully compatible with the Galaxy™ Modular Rack System and is an extension to the other products for the Digital Headend, like the DVB-S (Titan MKII™), DVB-C (Spectra™), and DVB-T (Atlas MKII™) receivers.



### Features

- Simultaneous monitoring of two ASI Transport Streams
- Monitoring of all TR 101 290 first, second and third priority parameters
- PCR jitter measurements
- Bit rate measurements
- Service and PSI/SI visualization
- Embedded, browser independent HTML Graphical User Interface
- ROSA Network Management System Integration
- Software upgradeable over Ethernet interface
- Maximum density, up to 10 TSM devices in 3 RU
- Hot-swappable
- Software programmable relay contact

# Orbiter Transport Stream Monitoring

## Specifications

Electrical Specifications	
Input Specifications	
Number of inputs	2
Connector	BNC
Impedance	75 $\Omega$
Interface type	ASI according to EN 50083-9
Format	188/204 byte packets (auto detection) non-channel encoded
Syntax	Single or multiple program transport stream as per ISO/IEC 13818-1
Management Interface Specifications	
Number of ports	1
Connector	RJ-45
Interface type	10Base-T
Standard	IEEE 802.3
Protocols	TCP/IP, SNMP, HTTP, FTP
Relay Contact	
Connector	2 x 25-pins female Sub D (on Galaxy chassis)
Contacts	1 contact (3-pins) per card (COM, NO & NC)
Contact type	Relay
Load	Max. 100 V DC, 250 m A, 5 VA
Alarms	Software configurable
Environmental Specifications	
Temperature within specs	+10 to +40°C / +50 to +104°F
Operating temperature	0 to + 45°C / +32 to +113°F
Storage temperature	-20 to + 70°C / -4 to + 158°F
Humidity	5% - 95% (non condensing)
Power supply (nominal)	-48 V DC
Power consumption (nominal)	7 W
Mechanical Specifications	
Height	128 mm / 5 in.
Width	30 mm / 1.18 in.
Depth	228 mm / 9 in.
Weight	Approx. 0.3 kg / 0.66 lbs
Module width	6 HP (1 slot in Galaxy chassis)

## Ordering Information

Orbiter TSM	Part Number
Orbiter Transport Stream Monitoring device	4002188
Paddles for Orbiter TSM	Part Number
Connector Card for Orbiter TSM	4002189



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