



This switching unit is used for the processor controlled switching of 36 RF signals in the frequency range DC...18 GHz.
It will be used in satellite ground stations for signal monitoring.

Design

The unit is housed in a 19" subrack with very good RF shielding and consists of the following sub-assemblies:

- coaxial relays SP6T
- processor board
- LAN and serial interface
- manual control module

All the necessary signal, power supply and earthing connections are provided at the rear.
The mains switch is located on the front panel.

Control

The unit is controlled via a LAN and a serial interface.
The integrated webserver allows the unit configuration, shows status information and obtain trouble shooting information.

Special features

The selected crosspoints as well as the I/O fault messages are displayed on the manual control module.

A status string can also be requested at any time via the control interface.

The unit is constructed using a modular approach utilising 19" plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data	measured a 25° C
Model number:	GTS5680
Item number:	1200185
Configuration:	36 inputs, 1 output SP36T without termination
RF specifications	
Impedance (Ohm):	50
Frequency range (GHz):	DC...18
Insertion loss (dB):	2.0 max.
VSWR:	1.5 : 1 max.
Isolation (dB):	60 min.
Input power (Watt):	25 CW max., cold switching
Switching time (ms):	20 max., without PC time
Switching cycles (Mill.):	1 min. per way
Switching elements:	failsafe relays
Further specifications	
Control:	LAN and serial
Manual control:	LCD (4x20) & pushbuttons (3x6)
RF connectors:	SMA female, 50 Ohm
Power supply (Vac, Hz):	95...264, 50...60
Connector	3-pin, with mains filter & fuses
Mains switch:	with integrated lamp
Temperature range (°C):	
Operating	0...50
EMC:	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3
Dimensions:	
Height (RU)	3
Width (inch)	19
Depth (mm)	about 300 (without connectors & handles)
Front panel:	
Front view	painted (RAL7032)