

Switching unit IF 1:8 Redundant Line amplifier GTS0100



This switching unit is used in a naval measurement application in the frequency range 0.15...1000 MHz.

Design

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

- relay switches SP2T
- amplifiers
- I/O boards
- processor board
- RS-422/RS-485 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. A manual control module with LC display and pushbuttons could be integrated on the front panel.

Special features

The I/O boards are monitored in a processor routine. 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:	GTS0100
Item number:	(will be assigned after order)
Configuration:	3 switches SPDT 2 amplifiers
RF specifications	
Impedance (Ohm):	50 Path 1
Frequency range (MHz):	0.15...230
Insertion loss (dB):	+/-1.5 max.
VSWR:	8.0 max.
Isolation (dB):	1.5 : 1 max.
Input power (dBm):	
Switching time (ms):	+30 min.
Switching cycles (Mill.):	+70 min.
Switching elements:	30 min. 30 min. +10 min. +34 max.
Further specifications	
Control:	LAN and serial
Manual control:	LCD (4x20) & pushbuttons (3x6)
RF connectors:	QN female
Power supply (Vac, Hz):	195...254, 50...60
Connector:	3-pin, with mains filter & fuses with integrated lamp
Mains switch:	
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 480 (without connectors & handles)
Front panel:	
Front view	painted (RAL7032)

Designed & produced by NOVOTORNIK GmbH

