This switching unit is required for automatic redundancy switching of IF and L-Band signals in the frequency range 30 … 2150 MHz.

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

- solid-state switches DPDT
- attenuators, fix and programmable
- amplifiers
- directional couplers
- control logic
- redundant power supply modules
- LAN interface
- mimic with manual control

All the necessary signal and power supply connections as well as the mains switches are provided at the rear.
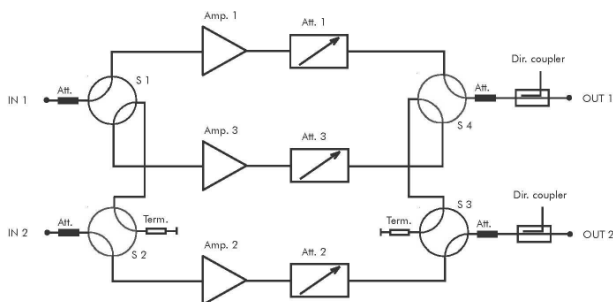
Control
The unit is controlled via a LAN interface.
Gain setting and selection of the RF path could be also done manually on the front panel.

Special features
A status string can also be requested at any time via the control interface.
The unit is constructed using a modular approach utilising plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data	measured a 25° C
Model number:	GTS5635
Item number:	1200176
Configuration:	2:1 redundancy, consisting of
	4 switches DPDT
	4 attenuators 3 dB
	3 programmable attenuators
	3 amplifiers
	2 directional couplers -20 dB

RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	30…2150
Gain (dB):	20
	adjustable 0…20 dB, 1dB steps
Gain flatness (dB):	+/-1.5 max.
Noise figure (dB):	10 typ.
VSWR:	1.5 : 1 max.
Isolation (dB):	
Crosstalk	50 min.
Input power (dBm):	+5 max.
P1 dBc (dBm):	+15 typ., output
Switching elements:	solid-state switches

Further specifications	
Control:	LAN
Manual control:	
Gain setting	up/down push buttons & display
Switch via mimic	push buttons with LED to show signal flow
RF connectors:	
Inputs/dir. couplers	SMA female
Outputs	N female
Power supply (Vac, Hz):	80…264, 47…63, redundant
Connector	3-pin, with mains filter & fuses
Mains switches:	integrated in the power supplies
Temperature range (°C):	
Operating	0…50
EMC:	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3
Dimensions:	
Height (RU)	1
Width (inch)	19
Depth (mm)	about 380
	(without connectors & handles)
Front panel:	painted (RAL7021)