



This switching unit is used for the switching of 16 RF signals in the frequency range 1 ... 3000 MHz to one output.  
The non-switched inputs are internally terminated.

### Design

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

- relay switch SP16T
- control logic
- LAN interface
- manual control with LCD and cursor pushbuttons
- redundant power supply units

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

### Special features

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               |  |
| <b>Model number:</b>           | GTS7010  |
| <b>Item number:</b>            | (will be assigned after order)                             |
| <b>Configuration:</b>          | 1 switch SP16T   |
| RF specifications              |  |
| <b>Impedance (Ohm):</b>        | 50   |
| <b>Frequency range (MHz):</b>  | 1...3000   |
| <b>Insertion loss (dB):</b>    | 5.0 max.   |
| <b>VSWR:</b>                   | 1.8 : 1 max.   |
| <b>Isolation (dB):</b>         |  |
| On/off                         | 50 min.  |
| In/in                          | 40 min.  |
| <b>Input power (dBm):</b>      | +20 CW max.  |
| <b>Switching time (ms):</b>    | 15 max.  |
| <b>Switching elements:</b>     | relays   |
| Further specifications         |  |
| <b>Control:</b>                | LAN  |
| <b>Manual control:</b>         | LCD & cursor pushbuttons                                   |
| <b>RF connectors:</b>          | SMA female   |
| <b>Power supply (Vac, Hz):</b> | 80...264, 47...63, redundant                               |
| Connector                      | 3-pin, with mains filter & fuses                           |
| <b>Mains switch:</b>           | integrated in the power supply                             |
| <b>Temperature range (°C):</b> |  |
| Operating                      | 0...50   |
| <b>EMC:</b>                    | in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3 |
| <b>Dimensions:</b>             |  |
| Height (RU)                    | 1  |
| Width (inch)                   | 19   |
| Depth (mm)                     | about 380<br>(without connectors & handles)                |
| <b>Front panel:</b>            |  |
| Front view                     | painted (RAL7021)  |