



SPC1200 Switching Controller with Graphical User Interface

The SPC1200 Touch Screen Redundancy Controller, provides a GUI which supports up to 7 waveguide/coaxial switches and three HPAs.

The controller can also be configured in a 1+1 or 1+2 redundant configuration.

FEATURES

- 1+1, 1+2 Redundancy controller
- Graphical user interface
- Waveguide Switch, Coaxial Switch Control
- LNA/LNB Power Supplies
- Data Circuit Switching
- 10/100BaseT Network port
- SNMP V1 and V2c
- TCP/IP 'Sockets' communication
- Web browser configuration and status
- Automatic Changeover logic
- Remote monitoring & Control

CONSTRUCTION

19" rack mount, 3U high Coaxial switching systems may incorporate the switches (and possibly other RF components) within the unit.

POWER SUPPLIES

Universal input 90-240V a.c. 50-60Hz. Dual mains supplies.

COAXIAL SWITCH CONTROL

Most standard coaxial switches can be accommodated. IF transfer switches (d.c. to 300MHz) are available in 500 and 750 versions. Coaxial transfer and multi-way switches operating at up to 18GHz (or 26GHz) are also available.

WAVEGUIDE SWITCH CONTROL

Control of industry standard 24-28V waveguide switches (48V as an option).

HPA INTERFACE

Support up to three HPAs, each with two fault inputs and a mute output.

LNA/LNB POWER

A variety of options to power LNAs and LNBs are available. For simple systems a fixed 24V d.c. output is often adequate. Options provide for variable output voltage. Switched voltage units are available for dual band systems. For units with dual mains feed and other than 24V output, the local power generation circuitry may also be made redundant. Up to six outputs can be provided; each from a separate circuit for best reliability. Each is on a separate rear panel connector, with its own self-resetting fuse. Where LNB power has to be fed via its coaxial output connector, a range of bias tees can be provided.

Each LNB power supply is individually monitored, and an alarm generated if the current drain goes outside preset limits. It is also possible to mount the LNA/LNBs internally.

CONTROL FACILITIES

Most control facilities can be implemented in software, typically including redundancy controllers, switching logic and general I/O interface.

The unit includes two serial ports, which may be used for various purposes. Both ports support RS-232, RS-422 and 4-wire RS-485 at a variety of baud rates. The industry standard 'Printable ASCII' and 'STX/ETX' protocols are supported. On the RC&M side, commands vary according to the facilities required, and are generally based on the DDA219/DDA286 Waveguide Switch Controller command set.

One serial port may be used to communicate with the HPAs, in which case selected HPA parameters may be displayed on the front panel.

NETWORK PORT

The unit includes a 10/100BaseT network port which supports multiple simultaneous connections. The web browser interface is used for a variety of purposes, including unit configuration and system log display, as well as displaying some key system status. The TCP/IP 'sockets' interface supports multiple simultaneous connections, and provides a very fast alternative to a serial connection for RC&M. The unit also supports SNMP V1 and V2c for RC&M.

POWER LEVELING

The controller can be configured to support power leveling, where the standby is updated with the settings of the main path equipment it is replacing during a switching sequence. Values may be updated by configurable amounts prior to update.

LOCAL CONTROL

For most units a local front panel provides manual control of the switching and various status indications.

ORDERING INFORMATION

Please contact the factory to discuss your specific configuration requirements.