

Broadband Active Redundancy Switch Unity gain,

50-3150MHz with 10MHz pass

Typical applications:

- Teleports & Earth Stations
- Satellite Operations
- Government & Defence applications
- Telemetry, Tracking & Command
 - High Resilience applications

SWF-G2S-BX-125-xxxxxx is a hot swap, redundancy switch operating over -5 to -55dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level differs by more than 2 to 30dB, customer settable. It is designed to operate with optical receivers from the StingRay Genus chassis series.

Switch Module





Switch Module

Compact form factor allowing multiple modules to be housed in the Genus chassis. Each module occupies 1 slot in the chassis.



50 - 3150 MHz operating frequency range



Hot Swap & replaceable RF module



10MHz pass from common to multi ports



2x1 Redundancy Switch with unity gain

Chassis Options



Local control & monitoring via HMI high resolution touchscreen



Resilience from dual redundant hot -swap power supplies & field replaceable CPU & HMI



Compact indoor & outdoor

chassis options, which can be part populated



Secure protocols with SNMPv3





Indoor Chassis



Flexible Module Configurations choose from a mixture of switch modules with different operating frequencies.



Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface



Field replaceable Internal 10MHz reference source and external reference inject port with auto detection (optional)



Outdoor Unit

ETL SYSTEMS LIMITED
Coldwell Radio Station
Madley
Hereford
England HR2 9NE
V 0 4 F&OF

TELEPHONE +44 (0)1981 259020

EMAIL info@etlsystems.com

FACSIMILE +44 (0)1981 259021

WEB www.etlsystems.com













Preliminary Technical Specifications and Operating Parameters

		RF Parameters
Model Number		SWF-G2S-BX-125
Frequency Range		50 to 3150 MHz (Broadband)
Gain		0 dB ± 1.5 dB
Flatness	850-2150MHz	± 1.0 dB
	50-3150MHz	± 1.5 dB
	Any 36MHz	± 0.25 dB
Return Loss (All RF ports are DC blocked)	50 ohm SMA	18 dB typical, 13 dB minimum
	50 ohm BNC	18 dB typical, 13 dB minimum
	75 ohm BNC	16 dB typical, 10 dB minimum
	75 ohm F-type	16 dB typical, 10 dB minimum
Isolation		19 dB typ. 16 dB min
1dB Gain Compression Point		+5 dBm minimum (output power)
Noise Figure		9 dB typ.,11dB max
Group Delay Variation		1ns over full band, 0.5ns over any 36MHz
RF Signal Range		Output: -70dBm to -10dBm (total power) o/p range available under all i/p conditions. (Note that all Specifications are only 'typical' between -60 & -70dBm unless otherwise detailed).
Max RF Input		+20 dBm total power (Damage level, NOT operational)
		Non RF Parameters
Power Consumption		<3W
Module Swap		Hot Swap
		Control, Monitoring & Alarms
Temperature		Each module monitored
Monitoring Includes		Status of amplifier stage, supply voltage, temperature
Control		Local and Remote via parent chassis
		Environmental Conditions
Operating Temperature		-20°C to +60°C
Storage Temperature		-40°C to +90°C
Location		Indoor use (ODU options available)
Humidity		20 to 90% non-condensing
Altitude		10,000ft AMSL
Mass		0.4kg typical TBC
Size		87mm Height x19mm Width x225mm Length
Spec Issue		0.1

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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