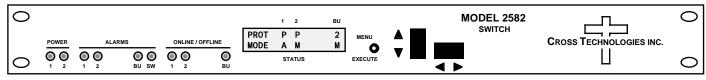


# **DATA SHEET**

9/12/06

# 2582-124 Switch with Backup Controller, 1 for 2

The 2582-124 is a 1 for 2 Switch with Backup Controller for downloading and storing user variable data settings from the active, on-line agile, IF/L-Band to RF frequency converters and controlling the back-up frequency converter. The 2582-124 provides Auto, Remote, or Manual backup protection for up to 2 agile frequency converters by using a combination of IF/L-Band relay switches and RF transfer switches for the IF/L-Band and RF signals. The 2582-124 works with standard Cross IF/L-Band to RF up and downconverters by polling their monitor and control ports on a periodic basis, and storing the variable data of each active online converter. In the event of a failure, the failed converter's current data is downloaded into the backup converter and then the inputs and outputs are switched from the failed converter to the backup converter either automatically (when an alarm is detected from the failed unit), remotely, or manually. Manual switching overrides Remote and Auto switching, while Remote switching overrides Auto switching. Manual selection is made by the front panel multi-function, push-button switches. Remote selection is made via a rear panel female DB9 connector. The 2582-124 is powered by redundant 90-260 VAC power supplies and is housed in a 1 3/4" X 19 " X 16" 1RU rack mount chassis.



## **Front Panel**

### **EQUIPMENT SPECIFICATIONS\***

### IF/L-Band Switch Characteristics

Impedance 50 Ω Return Loss > 12 dB Type Relay

Isolation > 55 dB, DC to 1.5 GHz > 50 dB, to 2.2 GHz; Switch time ≤ 100 milliseconds Insertion Loss

≤ 1.5 dB, to 1.5 GHz; ≤ 2.0 dB, to 2.2 GHz Configuration 1 for 2, no termination

**RF Switch Characteristics** 

Impedance 50 Ω Return Loss > 12 dB Type **RF** Transfer Isolation > 60 dB. to 15 GHz ≤100 milliseconds Switch time Insertion Loss  $\leq$  1.5 dB, to 8 GHz; ≤ 2.0 dB, to 15 GHz

Configuration 1 for 2, no termination

Controls, Indicators

Manual Selection Push-button switches

Remote Selection RS 232C (RS 422/485, option Q), 9600 baud

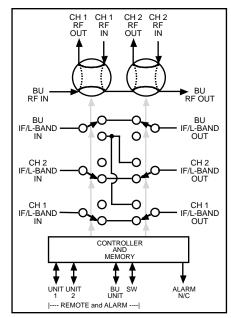
Power Green LEDs Alarms Red LEDs Online/Offline Green LEDs

Other

**RF Connectors** SMA (female) L-Band Connectors BNC (female) Alarm/Remote Conn's DB9 (female)

Size 19 inch, 1RU standard chassis 1.75"high X 16.0" deep

Power 90-260 VAC, 47-63 Hz, 45 watts max; Redundant power supplies



**Block Diagram** 

<sup>\*+10°</sup>C to +40°C; Specifications subject to change without notice