**CROSS TECHNOLOGIES, INC.**
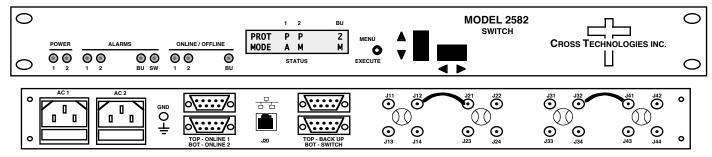
# 2582-126 Backup Switch, 1 for 2

The 2582-126 1 for 2 Switch provides Auto, Remote, or Manual backup protection for up to 2 block converters by using RF transfer switches (to 15 GHz) for signals from a backup unit to any of the 2 online units.  The 2582-126 provides transfer switches for both the IF & RF paths and works with standard Cross block up and downconverters by polling their monitor and control ports on a periodic basis.  A defective unit's inputs and outputs are switched from the failed unit to the backup unit 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 **(RS232, standard, RS422/485 and Ethernet optional)** .  The 2582-126 is powered by redundant 100-240 (±10%) VAC power supplies and is housed in a 1 3/4" X 19" X 16" 1RU rack mount chassis.



**Front and Rear Panel (Shown with optional Ethernet)**

## EQUIPMENT SPECIFICATIONS*

### IF (L-band) / RF Switch Characteristics

| | |
|---|---|
| Impedance | 50 Ω |
| Return Loss | > 12 dB |
| Type | RF Transfer |
| Isolation | > 60 dB, to 15 GHz |
| Switch time | ≤100 milliseconds |
| Insertion Loss | ≤ 1.5 dB, to 8 GHz; |
| | ≤ 2.0 dB, to 15 GHz |
| Configuration | 1 for 2, no termination |

### Controls, Indicators

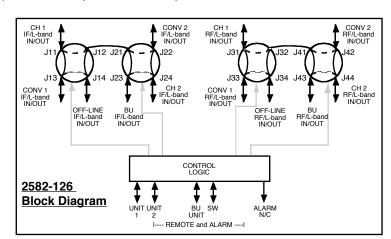| | |
|---|---|
| Manual Selection | Push-button switches |
| Remote Selection | RS232C, 9600 baud |
| | **(RS422/485, Ethernet Optional)** |
| Power | Green LEDs |
| Alarms | Red LEDs |
| Online/Offline | Green LEDs |

### Other

| | |
|---|---|
| RFConnectors | SMA (female) |
| Alarm/Remote Conn's | DB9 (female), **(RJ45 for optional Ethernet)** |
| Size | 19 inch, 1RU standard chassis 1.75"high X 16.0" deep |
| Power | 100-240 (±10%) VAC, 47-63 Hz, 45 watts max; Redundant power supplies |



**2582-126 Block Diagram**

### Available Options

**Comm. Interface/Standard RS232**
Q - RS422/485 Remote Interface
W8 - Ethernet; w/Web Browser (WB)
W18 - Ethernet; w/WB & SNMP
W28 - Ethernet; w/TCP/IP, Telnet

**Contact Cross for other options**

*+10˚C to +40˚C; Specifications subject to change without notice