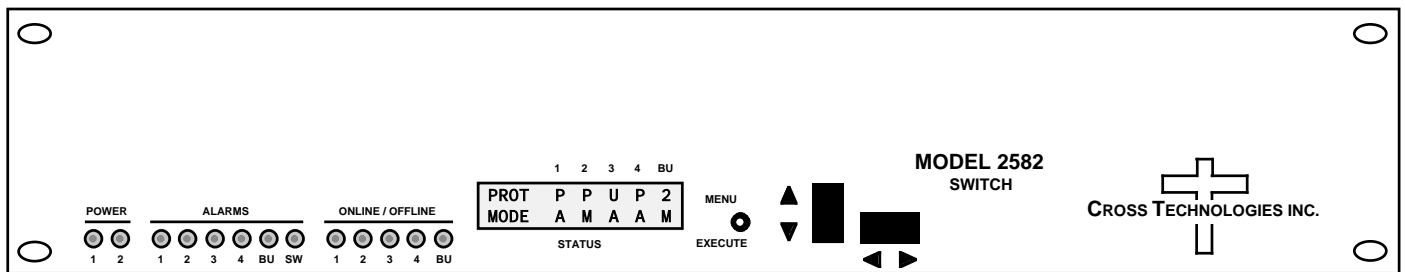


## 2582-344 Backup Switch, 1 for 4

The 2582-344 1 for 4 Switch with Backup Controller provides Auto or Manual backup protection for up to 4 converters by relay switching two IF and one RF signal from a backup unit to any of 4 on-line units. The controller in the 2582-344 monitors alarms and settings of the on-line units and sets the backup unit to the parameters of the unit being backed up prior to backing it up. The setting of on-line and backup units can be displayed on the 2582-344 display. The 2582-344 works with standard Cross up and downconverters by polling their monitor and control ports on a periodic basis. Manual polling of units can be done at any time. A defective unit's inputs and outputs are switched from the failed unit to the backup when a failure occurs either automatically or manually. Individual priority levels and "on-line", "off-line" and "not used" modes can be programmed for each on-line converter. Alarms are contact closures to ground. Status of the 2582-344 is via a serial data stream and a contact closure to ground on alarm.

All settings are stored in nonvolatile ROM and on power up the 2582-344 polls all units. Manual Select is controlled by the multi-function switches on the front panel. LEDs indicate alarm and switch conditions. The unit is powered by two 100-240 ±10% VAC redundant power supplies, and housed in a 2RU chassis.



**Front Panel**

### EQUIPMENT SPECIFICATIONS\*

#### IF/L-Band Switch Characteristics

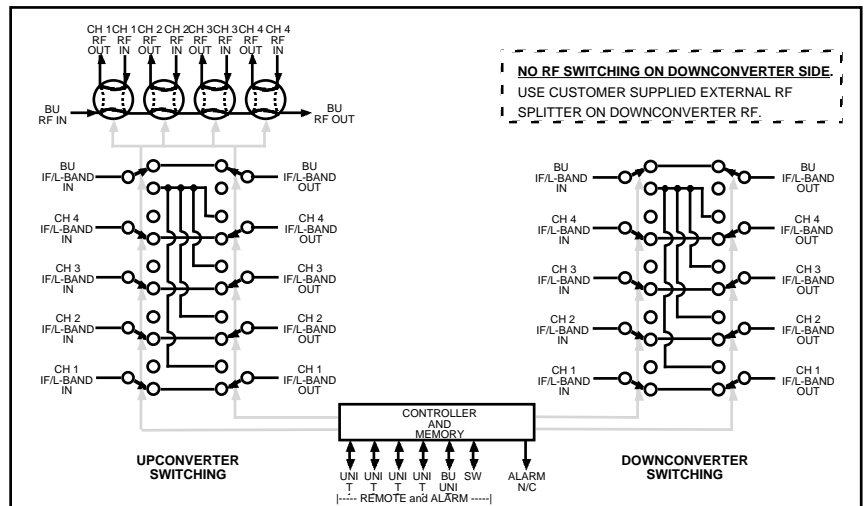
Impedance 50 Ω  
 Return Loss > 12 dB  
 Type Relay  
 Isolation > 55 dB, DC to 1.5 GHz  
 > 50 dB, to 2.2 GHz;  
 Switch time ≤ 100 milliseconds  
 Insertion Loss ≤ 1.5 dB, to 1.5 GHz;  
 ≤ 2.0 dB, to 2.2 GHz  
 Configuration 1 for 4, no termination

#### 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 4, no termination

#### Controls, Indicators

Manual Selection Push-button switches  
 Remote Selection RS 232C (RS 422/485, **option Q**)  
 Power Green LEDs  
 Alarms Red LEDs  
 Online/Offline Green LEDs



**Block Diagram**

#### Other

RF Connectors SMA (female)  
 IF/L-Band Connectors BNC (female)  
 Alarm/Remote Conn's DB9 (female)  
 Size 19 inch, **2RU** standard chassis X 16.0" D  
 Power 100-240 VAC, Redundant power supplies

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

