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 power supplies, and housed in a 2RU chassis.

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.

### Equipment Specifications*

**IF/L-Band Switch Characteristics**
- Impedance: 50 Ω
- Return Loss: > 12 dB
- Type: Relay
- Isolation: > 55 dB, DC to 1.5 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

**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

**Front Panel**

**Block Diagram**