The 2582-282 1 for 8 Switch with Backup Controller provides Auto or Manual backup protection for up to 8 converters by relay switching IF and RF signals from one backup unit to any of 8 on-line units. The controller in the 2582-282 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 2582-282 works with standard Cross Up or 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 when a failure occurs either automatically or manually. “On-line”, “Off-line” and “not used” modes can be programmed for each converter. Alarms are contact closures to ground. Status of the 2582-282 is reported via a serial data stream (Ethernet, Optional) and a contact closure to ground on alarm.

All user settings of the switch are stored in nonvolatile ROM and on power up the 2582-282 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/Return Loss: 50 Ω / > 12 dB Return Loss
- 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 8, no termination

**RF/L-Band Switch Characteristics**
- Impedance/Return Loss: 50 Ω / > 12 dB Return Loss
- 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 8, no termination

**Controls, Indicators**
- Manual Selection: Push-button switches
- Remote Selection: RS 232C (Optional RS 422/485 Option Q; Ethernet Option W8)
- Power: Green LEDs
- Alarms: Red LEDs
- Online/Offline: Green LEDs / Yellow 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*