

Centre for Development of Telematics

RF SWITCH OVER UNIT RSO-U41 & RSO-D41

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OVERVIEW

The RSO-U41 and RSO-D41 RF Switchover Units provide backup for up to 4 converters connected to them. The parameters of all the online converters can be controlled and monitored through the switchover units. The SOU polls the connected converters for alarms and switches to the backup converter when a fault is detected. The programmed parameters of the faulty converter are transferred to the backup converter. The converters can be controlled and monitored through a PC or from the front-panel.

Frequency, Level, frequency and power steps, reference etc. can be programmed from the front panel of the switchover units.

The switchover units operate on AC power input. –48V DC input is provided as an option. Power supply edundancy is provided. Status of derived voltages is available on the front panel.

SPECIFICATIONS

FRONT PANEL

| | |
|---|---|
| Display indication LED'S | : Online, Backup ,Fault, PSU status |
| LCD (16 X 2 CHARACTERS) | : Online, Backup ,Fault |
| Controls and Resets | : Push Buttons |
| Remote Monitoring and Control through switch over unit or serial port | : Frequency, Frequency step Gain, Gain step Reference converter Status, priority setting etc. |
| Password | : Lock /Unlock Keypad |

REAR PANEL

| | |
|-------------------------|--------------------|
| RF In/Out | : SMA-F |
| IF In/Out | : BNC-F |
| Interface to converters | : D-Type connector |
| RS 232 | : D-Type connector |

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RF PORTS

| | |
|--------------------------|-------------------------------------|
| Band width | : DC-18 GHZ |
| Insertion Loss (Online) | : 0.4 dB C-Band ,0.5 dB (Ku Band) |
| Insertion Loss (Back-Up) | : 0.7 x 4 |
| Impedance | : 50 ohms |
| VSWR | : 1.5:1 (Max) |
| Isolation | : 70 dB (C -Band), 60 dB (Ku -Band) |

IF PORTS

| | |
|----------------|---------------|
| Bandwidth | : 50-180 Mhz |
| Insertion Loss | : 0.2 dB |
| Impedance | : 75 Ohms |
| VSWR | : 1.3:1 (Max) |
| Isolation | : 50 dB |

MECHANICAL

Size : 19" x 21 "Deep x 3.5" Height