

# 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 redundancy 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