**T2000LR and R2000LR**

2+1 Redundancy Unit for the P7001R/ P7002R Remote Mounted Agile Converters

The **T2000LR and R2000LR 2+1 Redundancy units** are designed to take advantage of the 2+1 redundancy control interface which is built in as a standard feature of the **P7001R & P7002R** series of synthesized remote mounted frequency converters.

The system is designed to provide redundancy for a dual-feed system, maintaining maximum availability whilst allowing routine maintenance and repair work to be carried out on the standby converter, without the normal associated down-time.

The system maintains two converters on-line whilst the other is held in hot standby, allowing the user to select and monitor the on-line converter, or the automatic mode chosen where the system monitors the converter alarm status and if a fault condition develops within either of the on-line converters, automatically switches traffic to the standby unit.

The redundancy unit can be controlled via the **P7001R or P7002R** which in turn is controlled by the user from either a PC based M&C system (RS232/ 485/ Ethernet) or a rack mounted control panel (See the **P7001R or P7002R** series datasheets for details).

The **T2000LR redundancy interface unit** has connections for the P7002R UpConverter (transmit chain) and the **R2000LR** for the P7001R DownConverter (receive chain).

Options exist to include remote mounted BUC/ BDC’s in a chain-redundant 2+1 switching arrangement.

The unit is housed in a rugged weatherproof chassis, suitable for either internal or external/remote locations.

**Peak Features**

- High quality, matched IF, L-Band & control cable set for interfacing to the P7001R/P7002R included as standard
- BUC/BDC chain-redundancy switching options available
- Rugged weatherproof housing

**IF & L-band Interfaces**
- **Frequency**
  - IF: 50 to 200MHz
  - L-band: DC to 2GHz
- **Connections**
  - 50Ω, N-type (f)
  - Option 1: 75Ω IF connections

**Switch Element Parameters**
- **Type**: Co-axial, latching

**Typical System Performance**
The following gives the typical performance that can be expected from a system comprising Peak converters & using the high quality matched IF & L-band cable sets;

**General Performance**

**Mechanical**
- **Width**: 172mm (6.8"), plus connections & mounting flanges
- **Height**: 123mm (4.85"), plus connections
- **Depth**: 48mm (1.89")
- **Construction**: Die-cast Aluminium, IP66 rated
- **Weight**: 1.4kgs (3lbs) approx

**Control System**
- **Converter Interface**: multi-pin, circular, weatherproof (mating part supplied)

**Environmental**
- **Operating temp**: -25°C to +55°C (less solar gain)
  - Option 12: -40°C to +55°C (less solar gain)
- **Humidity**: 0-100% condensing
- **EMC**: EN 55022 part B & EN 50082-1
- **Safety**: EN 60950

**Options**
1) 75Ω IF connections.
2b) BUC/ BDC included in 2+1 chain-redundancy configuration.
12) Low temperature operation to -40°C.

**Associated Products:**
- P7001R remote mounted agile DownConverter
- P7002R remote mounted agile UpConverter
- FPC100 rack mounted control panel (1RU)