

RBU790-1

1+1 Redundant, High Grade, X-Band, Block UpConverter system









The **RBU790-1** 1+1 redundant X-Band block UpConverter system comprises two **IBU790** block UpConverters, plus an **RCU100** control unit along with matched SHF, L-Band and a complete control interface cable set. It includes all that is required to implement a single-feed 1+1 redundant X-Band UpConverter system, maintaining maximum availability whilst allowing routine maintenance and repair work to be carried out on the standby converter without the normally associated down-time.

The **RBU790-1** system maintains one converter on-line whilst the other is held in hot standby, allowing the user to select the on-line converter. The redundancy unit can be controlled from the front panel (local mode) or by the RS232/ RS485 link to a host computer (remote mode). In remote mode, the on-line converter can be selected and monitored whilst keeping switch-over automatic in case of failure.

In AUTO mode, the **RCU100** control unit monitors the converter alarm signals via the interface connecting cables and if a fault condition develops within the on-line converter, the **RCU100** automatically switches traffic to the standby unit.

All units are mains powered and are constructed of high grade components to give the ultimate stability, ripple and phase noise performance. The converters utilise externally phase locked dielectric resonator oscillators (XPDRs) and are far superior in stability and phase noise to voltage controlled oscillators (VCOs), as commonly used in other BUC designs.

Peak Features

-  High stability, low ripple and excellent phase noise
-  10MHz external reference option fitted as standard with automatic internal reference back-up
-  Dual mains input & redundant power supplies on control unit fitted as standard
-  Keys removable for security in any position
-  Dual switching arrangement (L-band and SHF)
-  Matched SHF, L-band and converter control interface cable set provided as standard



