

P7702i

UHF to L-Band, Up Converter



The 19-inch, 1RU rack mounted **P7702i** block up converter unit from Peak Communications is designed to typically take the incoming UHF signal and produce an output at L-Band that is suitable for further conversion by a **P7001** converter or for direct connection to a receiver in a down link chain.

The **P7702i** unit is designed to meet the phase noise, spurious level and frequency stability requirements of Intelsat IBS/Eutelsat SMS specifications. The excellent group delay response makes the product suitable for high order modulation schemes and both very high & low data rates associated with digital TV signals.

The **P7702i** unit is mains powered and is constructed of high-grade components to give the ultimate in performance. These components include a high-grade crystal oscillator to give the highest performance of stability and phase noise, a well proven externally phase locked DRO, a high-grade waveguide band-pass filter to give minimum insertion loss and flatness across the band, a high performance low noise amplifier, high grade mixers and isolators between each section to ensure correct matching.

For redundancy the **P7702i** uses a simple CANBUS® interface and has an integral redundancy controller for 1+1 & 2+1 operation (for use with external switch units), for N+1 systems a separate stand-alone control and switch unit is provided (**RCU1000 series**).

Note; separate stand-alone control and switching units can also be provided for 1+1 & 2+1 systems, please consult the factory.

The unit has a highly stable internal reference source and will automatically detect and lock to an external 10MHz signal, when applied.



Email: sales@esatcom.com