

# FRC0740 L-BAND BLOCK UPCONVERTER



# FRC0750 ACTIVE L-BAND COMBINER AND UPCONVERTER



The FRC0740 L-band Block Upconverter is a High Performance frequency Block Upconverter designed for a wide range of Broadcast, Telco and IP satellite applications. The FRC0740 translates frequencies from L-band to a wide range of RF frequencies such as C-, Ku- and DBS-band.

The FRC0740 guarantees the best signal quality thanks to a very high frequency stability and very low spurious characteristics. It is the ideal solution when the Block Upconverter cannot be included in the modulator. The FRC0740 has a 30-dB variable gain control on one L-band input and one L-band monitoring output. There is a second input with fixed 10-dB gain. The signals on the two L-band inputs can be combined inside the unit before being up-converted. The high output frequency stability is provided by an internal 10 MHz reference clock. For applications requiring a very high frequency stability (such as for very low data rate carriers), an optional very high stability reference clock can be ordered.

The FRC0750 Active L-band Combiner and Block Upconverter is primarily designed to bring together several L-band carriers in a single satellite channel. To equalize the level of the incoming signals, each input has its own amplifier/ attenuator. The FRC0750 can also be used as an active switching device for signal routing purposes or redundancy switching operations. In its default configuration, the FRC0750 combines up to four different L-band signals into one L-band signal. As an option it is possible to combine up to eight different L-band signals within the same unit. A DC power supply and a reference frequency are also available on the L-band output, providing a compact and cost effective solution when the FRC0750 is used in combination with an outdoor RF upconverter and/or amplifier. The FRC0750 can be delivered with an integrated block upconverter as an option. In this configuration, the FRC0750 converts the L-band output signal of the combiner to C-, Ku- or DBS-band.

Both the FRC0740 and FRC0750 are easy to operate and monitor. All control and monitoring parameters are available locally on the front panel and remotely through a web interface. It is also possible to control or monitor the FRC0750 via our proprietary RMCP protocol or via SNMP.

ST Engineering iDirect's range of Frequency Converters consists of a complete portfolio for broadcast, telco and IP satellite applications. It contains easy to operate and monitor Up converters, Downconverters, Up & Down-converters, L-band Upconverters and Combiners.

These Up & Down converters offer the highest signal quality, thanks to the high frequency stability, very low spurious characteristics and high linearity over the entire bandwidth; as well as extensive coverage of all transponder frequencies (IF, L, C, Ku and DBS band).



## Key Features

### FRC0740

- Wide choice of RF frequency ranges covering C, Ku, and DBS-bands
- Converts Extended L-band (950-2150 MHz) to Extended C-band (5.85 - 7.05 GHz)
- Very high frequency stability
- Very low spurious characteristics
- Two L-band inputs and one L-band output
- One L-band input with 30dB variable gain range
- Integrated signal combiner
- Very high linearity
- Very good gain flatness over the entire bandwidth

### FRC0750

- Up to eight L-band inputs
- Each input is switchable and gain adjustable
- Optional upconversion to C-, Ku-, or DBS-band
- Optional 10 MHz +DC power for BUC
- Optional 10 MHz reference input/output
- Advanced monitoring and control

## Applications

- Broadcast primary distribution
- Broadcast contribution
- Direct-To-Home (DTH) uplinks
- Telco and trunking satellite infrastructures
- VSAT hubs
- Generic satcom applications

## Related Products

M6100	Broadcast Satellite Modulator
MDM6100	Broadcast Satellite Modem
MDM6000	Satellite Modem
FRC0710	Upconverter
FRC0720	Downconverter
FRC0730	Up and Down Converter
USS0202	Universal Redundancy Switch