



- Converts all 4 universal IF bands to a single optical output
- Capable of supplying all converted signals to 32 distribution points spread over a 10 kilometre radius.
- 40 mm Feed Horn.

### Application

Termination box is suitable for fixing the end of fiber and splicing the fiber pigtail, meantime it protects fiber splice tie-in and helps to distribute fiber. Termination box is mainly used in telecom equipment room or network equipment room.

The Playroom PRMSAT-Q Optical Output LNB radically changes how satellite IF signals are dealt with compared with conventional universal LNBs. This innovative new design uses patented technology to frequency stack both horizontal and vertical polarities, creating a single IF frequency range of 950MHz - 5,45GHz. The newly created single band is then frequency modulated optically and output using a 1310nm laser internal to the Optical Output LNB. Powered separately the Optical LNB takes the required <450mA from a standard 12V supply utilising a standard female F type connector. Fibre connection is made via a standard FC/PC connector feeding the distribution network on single mode fibre optic cable. With an optical output +7dBm the Playroom PRMSAT-Q Optical Output LNB is easily capable of driving up to 32 Playroom PRMSAT-Q converters located within a 10km radius.

### Technical Specifications

Input frequency	10,7 - 12,75 GHz (H and V)
Output frequency	950MHz - 5,45GHz, modulated laser output 1310 nm
Optical output power	7dBm nominal at 25°C, +/-2dBm over full temperature range
Noise figure	0,5 - 1,3 dB (depends on ambient temperature)
Gain	62 - 72 dB (at room temperature)
Gain variation	+/- 2dB (-30 - +60°C)
Gain flatness	5dB per band (0,95 - 5,45GHz)
Gain ripple	per 26MHz bandwidth must be less than +/-0,5dB
Local oscillator stability	Condition - Max variation from nominal freq. Initial setting +/-1MHz. Temp. drift (-40 - +60°C) +/-
Current consumption	< 450mA
Image rejection	40dB min.
Cross polar isolation	min. 25dB, typ. 30dB
Output connectors	DC Input - F-connector (female), Optical output - FC/PC
Supply voltage	12V
Spurious output	(after recovering modulation) in band ( 950MHz - 3GHz, 3,4GHz - 5,45GHz) -25dBc
Temperature range	-30 - +60°C operating, -40 - +70°C storage
Dish and LNB mechanical interface	40mm clamp