

Instruction - Triax Elliptical Dish, LNB Range

370542 – Single LNB

300425 – Quad LNB

300426 – Octo LNB

Overview:

This range of Triax LNB's, (Low Noise Block-converters), are specifically designed and optimised for use with Region 1 and Region 2 Elliptical Satellite Dishes. The integral clamp on the LNB slots onto the Feed Leg of the satellite dish.

The Single LNB provides a single satellite feed and can supply one, single tuner, satellite receiver. The Quad LNB provides up to four satellite feeds and can supply up to four single tuner Satellite receivers or up to two, twin tuner, PVR, (Personal Video Recorder), Satellite Receivers.

The Octo LNB provides up to eight satellite feeds and can supply up to 8 single tuner Satellite Receivers or up to four, twin tuner, PVR, Satellite Receivers.

Key Features:

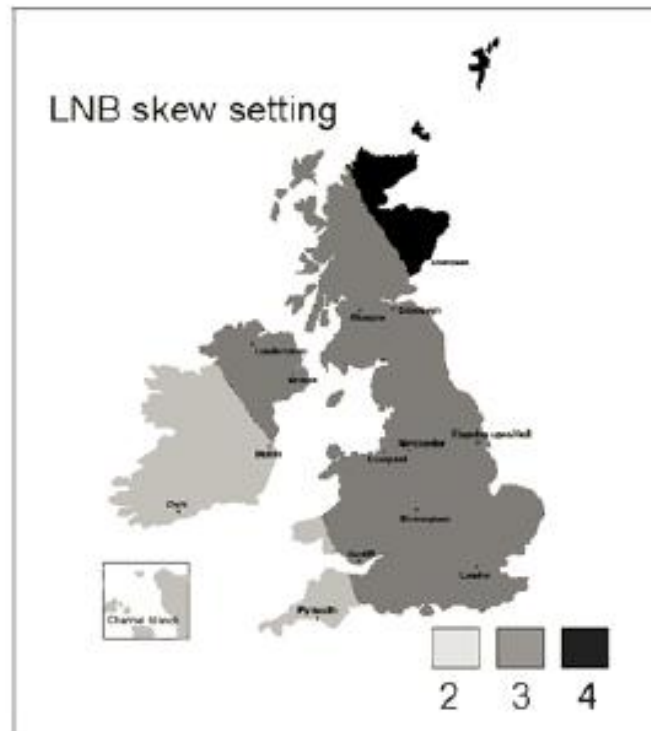
- Specifically designed for optimum performance with Elliptical Satellite Dishes.
- High performance.
- Simple installation.
- Compact design.
- Suitable for use with Sky or Free-To-Air Satellite Receivers.

Installation:

- Before fitting the LNB to the Feed Leg of the Satellite Dish, check that the LNB skew setting is correct for your location. See 'LNB Skew Settings' below for guidance.
- If the Skew needs to be adjusted loosen the Feed Clamp screw, adjust to the correct setting and retighten the screw, (do not over-tighten).
- Angle the front edge of the Feed Clamp so that it slots onto the top face of the Feed Leg.
- Support the Feed Leg and locate the Feed Clamp securely onto the Feed Leg. Ensure that the locating lugs on the Feed clamp lock into place with the cut outs in the bottom of the Feed Leg.
- Remove the mounting pin from the Feed Clamp and push through the hole on the upper face of the Feed Clamp into the Feed Arm. Make sure that the pin is fully inserted and sits flat on the Feed Clamp.



LNB Skew Settings:



The three numbered zones on the map above indicate the required LNB skew setting for different areas of the UK and Ireland. These correspond to the numbers marked for the skew settings on the LNB. Note that only settings 2, 3 and 4 are relevant for this geographical area.

Guarantee:

The LNB's listed on this instruction sheet are supplied with a 24 month manufacturer's guarantee from date of original purchase.

In the unlikely event of an issue occurring within this period, please contact your point of sale. Proof of purchase will need to be supplied.

1. This guarantee only applies to defects due to faulty workmanship or materials. It does not cover faults or damage caused by (but not limited to) accident, misuse, fair wear and tear, signal related issues, neglect, tampering with the product or repair other than by a facility appointed by Triax UK Ltd.
2. The product must be correctly installed and operated in accordance with the instructions contained in this operating manual.
3. Triax UK Ltd disclaims any liability for incidental or consequential damages.
4. This guarantee is in addition to, and does not diminish your statutory or legal rights.

Specifications:

Single Output LNB:

RF Input	Frequency Range	Low Band: 10.7 ~ 11.7 GHz High Band: 11.7 ~ 12.75 GHz
	IF Output	Frequency Range
IF Output	Connector Type	75Ω Female Connector
	VSWR	2.5:1 (Max.) @ Room Temp.
	Local Oscillator	Frequency
Local Oscillator	Frequency Stability	± 1MHz (Max.) @ Room Temp.
	Frequency Phase Noise	-50dBc/Hz@ 1KHz (Max.) -75dBc/Hz@ 10KHz (Max.) -95dBc/Hz@ 100KHz (Max.) -110dBc/Hz@ 1MHz (Max.)
	Conversion Performance @ Room Temperature	Conversion GAIN
Conversion Performance @ Room Temperature	Gain Variation (P-P)	8dB (Max.)
	Gain Flatness	± 1dB (Typ.)/26MHz
	Noise Figure	1.3 dB (Max.)
	Image Rejection	45dB (Min.)
	Cross Polarization	18dB (Min.)
	Power Requirements	DC Current Consumption
Power Requirements	Operating Voltage	Vertical: 11.5 ~ 14Vdc Horizontal: 16 ~ 19Vdc
	Band Switching	Low Band: 0 Hz High Band: 22 ± 4KHz
	Environment	Operating Temperature
Environment	Storage Temperature	-55°C ~ +80°C

Triax UK Ltd reserves the right to change the specifications at any time without prior notice.



Quad LNB:

RF Input	Frequency Range	Low Band: 10.7 ~ 11.7 GHz High Band: 11.7 ~ 12.75 GHz
IF Output	Frequency Range	Low Band: 950 ~ 1950 MHz High Band: 1100 ~ 2150 MHz
	Connector Type	75Ω Female Connector
	VSWR	2.5:1 (Max.) @ Room Temp.
Local Oscillator	Frequency	Low Band: 9.75 GHz High Band: 10.6 GHz
	Frequency Stability	± 1MHz (Max.) @ Room Temp.
	Frequency Phase Noise	-50dBc/Hz@ 1KHz (Max.) -75dBc/Hz@ 10KHz (Max.) -95dBc/Hz@ 100KHz (Max.) -110dBc/Hz@ 1MHz (Max.)
Conversion Performance @ Room Temperature	Conversion GAIN	55dB (Typ.), 62dB (Max.)
	Gain Variation (P-P)	8dB (Max.)
	Gain Flatness	± 1dB (Typ.)/26MHz
	Noise Figure	1.3 dB (Max.)
	Image Rejection	45dB (Min.)
	Cross Polarization	18dB (Min.)
Power Requirements	DC Current Consumption	180mA (Max.)
	Operating Voltage	Vertical: 11.5 ~ 14Vdc Horizontal: 16 ~ 19Vdc
	Band Switching	Low Band: 0 Hz High Band: 22 ± 4KHz
Environment	Operating Temperature	-35°C~ +60 °C
	Storage Temperature	-55°C~ +80°C

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Octo LNB

RF Input	Frequency Range	Low Band: 10.7 ~ 11.7 GHz High Band: 11.7 ~ 12.75 GHz
	IF Output	Frequency Range
IF Output	Connector Type	75Ω Female Connector
	VSWR	2.5:1 (Max.) @ Room Temp.
	Local Oscillator	Frequency
Local Oscillator	Frequency Stability	± 1MHz (Max.) @ Room Temp.
	Frequency Phase Noise	-50dBc/Hz@ 1KHz (Max.) -75dBc/Hz@ 10KHz (Max.) -95dBc/Hz@ 100KHz (Max.) -110dBc/Hz@ 1MHz (Max.)
	Conversion Performance @ Room Temperature	Conversion GAIN
Conversion Performance @ Room Temperature	Gain Variation (P-P)	8dB (Max.)
	Gain Flatness	± 1dB (Typ.)/26MHz
	Noise Figure	1.3 dB (Max.)
	Image Rejection	45dB (Min.)
	Cross Polarization	18dB (Min.)
	Power Requirements	DC Current Consumption
Power Requirements	Operating Voltage	Vertical: 11.5 ~ 14Vdc Horizontal: 16 ~ 19Vdc
	Band Switching	Low Band: 0 Hz High Band: 22 ± 4KHz
Environment	Operating Temperature	-35°C~ +60 °C
	Storage Temperature	-55°C~ +80°C

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