

NERA SATLINK 4033/4035 2W/3W Ku-band Transceiver For Broadband Via Satellite

As the **first DVB-RCS based outdoor unit** to integrate a Ku-band transmitter and receiver into a single compact casing, the **Nera SatLink 4033/4035** transceiver is easy to install and highly robust.

The transceiver is available in 2 Watt and 3 Watt versions and compatible with most VSAT antennas. The integrated DiSEqC™ support reduces installation time to a minimum.

SIMPLIFIED LINE-UP WITH DISEQC CONTROL

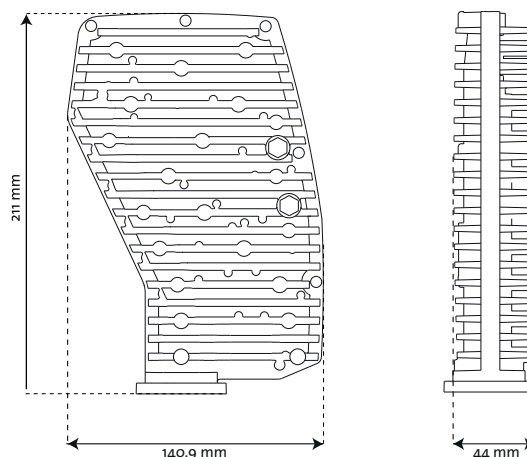
The Nera Satlink 4033 (2 Watt) and the Nera Satlink 4035 (3 Watt) Transceivers support the extended DiSEqC protocol, enabling remote status monitoring from the indoor unit, closed loop power control through continuous monitoring of RF-transmit power, and simplified line-up during installation.

NO NEED FOR EXTERNAL LNB OR OMT

The transceiver eliminates the need for any external LNB or OMT. The transceiver fits directly onto the feed horn, simplifying installation and making it significantly more robust.

COMPLIANT WITH THE OPEN STANDARD DVB-RCS

As with the entire Nera SatLink range of products, the Nera SatLink 4033/4035 is designed in strict accordance with DVB-RCS (Digital Video Broadcast – Return Channel via Satellite) standards and guidelines, ensuring interoperability with other DVB-RCS compliant equipment.



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A fully owned subsidiary of Nera, Nera SatCom is a leading manufacturer of equipment based on the DVB-RCS broadband via satellite standard, and the chief supplier of products and solutions for the Inmarsat satellite system.

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TECHNICAL SPECIFICATIONS

TX SPECIFICATIONS

Output	
Tx band	14.0 – 14.5 GHz
P1dB compression	35 / 33 dBm (Nera SatLink 4035 / Nera SatLink 4033)
Local Oscillator	
Frequency	13.05 GHz, phase locked to external reference
Reference frequency (fed on IF cable)	10 MHz
Reference level	-5 to +5 dBm
IF Interface	
IF frequency	950-1450 MHz
IF connector	F-type, 75 Ohms
Power (Volt/Watt)	18-28 VDC / <20 Watt

Gain Characteristics

Linear Gain	57 dB typical
Gain ripple 500 MHz	4 dB
Gain ripple any 50 MHz	1.5 dB
Gain stability over temperature	3 dB

Control Channel

Extended DiSEqC v 4.2	22 kHz two-way tone signalling
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RX SPECIFICATIONS

RF Input	
Rx band (low/high band)	10.7-12.75 GHz
IF frequency (low/high band)	950-2150 MHz

Noise figure measured at OMT port	1.0 dB
Conversion gain	58-68 dB

Local Oscillator

Frequency	9.75 GHz (low band) / 10.6 GHz (high band)
SSB Phase Noise (10/100/1000 kHz)	-85 / -105 / -120 dBc/Hz
LO stability	± 1MHz

IF Interface

IF frequency	950-2150 MHz
IF connector	F-type, 75 Ohms
Output P1dB	5 dBm
DC voltage (fed on IF cable)	13-18 VDC
Current consumption	120 mA max
Low/high band selection	22 kHz tone off/on

OUTPUT SPECIFICATIONS OMT / ANTENNA INTERFACE

Polarization	Linear/Linear, cross-polar
Crosspolarization level Tx	35 dB
Output interface	C120

PHYSICAL / ENVIRONMENTAL

Temperature	-35°C to +80°C storage / -35°C to +55°C operational
Humidity	0-100% condensing (operational) 0-100% non-condensing (storage)
IP Grade	64
Dimension	211 x 141 x 44 mm
Weight	1200 g