



SatLink 4033/4035

Integrated 2W/3W Ku-Band Transceiver

The SatLink 4033/4035 is the first DVB-RCS certified outdoor unit to fully integrate a Ku-band transmitter and receiver into a single compact, lightweight casing. It is available in both 2 Watt (4033) and 3 watt (4035) versions, and is compatible with most VSAT antennas. When combined with the standard DiSEqC™ power control feature on the transmitter, the result is a significant reduction in installation time.

The SatLink 4033/4035 is a member of a family of SatLink products and systems from STM enabling scalable, high-availability DVB-RCS networks optimized for Internet Protocol (IP) communications, including: VSATs, turnkey hub and gateway systems, hub components, and value-added options for advanced data, voice and video networking via satellite. STM is the technology and market leader in DVB-RCS satellite networks delivering superior performance for telecom service providers, ISPs, governments and enterprises around the world. STM also offers teleport services, installation and integration services, plus total managed network services.



Features & Benefits

• Compact and Integrated Design

Integrates the BUC, LNB and OMT sections into one compact and lightweight casing. When combined with the standard DiSEqC™ power control feature on the transmitter, installation time is greatly reduced.

• Embedded Transmit Power Control

During production, the P1dB compression point is measured across the full 500 MHz transmit range and the calibration data is stored inside the unit. When powering up the transceiver, the SatLink IDU will download the calibration table and enter into a continuous monitoring loop, preventing the transceiver from ever transmitting beyond its P1dB compression point. To the network and satellite operators, this means less interference to neighboring sites and improved link margins.

• Accuracy

Integrated design virtually eliminates the possibility of mistakes during the LNB/OMT/BUC/Feed assembly stage.

• Simplified Installation

The built in power detector communicates with the ODU, transmitting power usage data, the ODU serial number, and other information to the IDU, greatly improving the ease of installation and logistics.

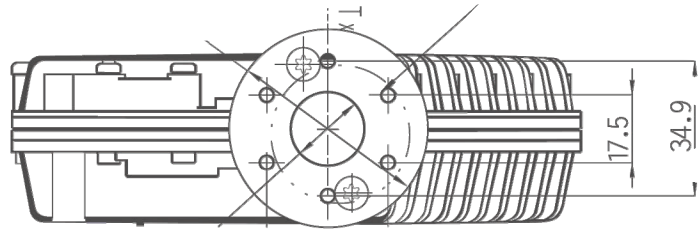
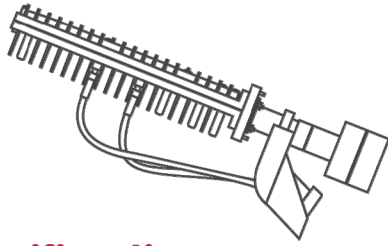
• Compatibility

Fits directly onto a C120 interface with 6 UNC screws, with holes evenly spaced at 60 degrees, giving great versatility in customized implementations.



SatLink 4033/4035

Integrated 2W/3W Ku-Band Transceiver



Specifications

Transmitter

RF Interface

Frequency: 14.0 - 14.5 GHz
P1dB Compression: 33 dBm (4033) / 35 dBm (4035)

IF Interface

Frequency: 950 - 1450 MHz
Connector: F-type, 75 Ohms
DC Supply: 18-28 VDC
Power Consumption: < 20 Watt

Local Oscillator

Frequency: 13.05 GHz, locked to ext. ref.
Reference Frequency: 10 MHz (fed via Tx connector)
Reference Level: -5 to +5 dBm
SSB Phase Noise: 1 kHz : -70 dBc/Hz; 10 kHz : -80 dBc/Hz; 100 kHz : -93 dBc/Hz; 1 MHz : -117 dBc/Hz

Gain & Spurious

Linear Gain: 57 dB typical
Gain Ripple - 500 MHz: 4 dB typical
Gain Ripple - 50 MHz: 1.5 dB typical
Temperature Stability: 3 dB
Spurious in Tx Band: -50 dBc

Control Channel

Extended DiSEqC v. 4.2
22 kHz two-way signaling downstream channel

Antenna Interface

Polarization: Linear / Linear, Cross-polar
Feed-horn Interface: C120
Tx/Rx Cross-polar Level: 35 dB / 35 dB

Receiver

RF Interface

Frequency: 10.7 - 12.75 GHz
Noise Figure at OMT: 1.0 dB typical
Conversion Gain: 58 - 68 dB

IF Interface

Frequency: 950 - 2150 MHz
Connector: F-type, 75 Ohms
Output Level, P1dB: +5 dBm
DC Supply: 13 - 18 VDC
Current Drain: 120 mA Maximum
Band Selection (Lo/Hi): 22 kHz Tone (Off/On)

Local Oscillator

Frequency: 9.75 GHz (Lo band); 10.6 GHz (Hi band)
SSB Phase Noise: 10 kHz : -85 dBc/Hz; 100 kHz : -105 dBc/Hz; 1 MHz : -120 dBc/Hz
L.O. Stability: +/- 1 MHz

Physical/Environmental

Temperature: -35°C to +55°C (operating); -35°C to +80°C (storage)
Humidity: 0 to 100 % condensing (operating); 0 to 100 % non-condensing (storage)
IP Grade: IP 64
Size: 21.1 x 14.1 x 4.4 cm
Weight: 1.2 kg

Compliance

Regulatory: CE (R&TTE), Anatel

www.stmi.com

STM Group, Inc. | 2 Faraday | Irvine, CA 92618, USA | T +1 949 273 6800 | FAX +1 949 273 6020
STM Norway AS | Vollsveien 21 | 1366 Lysaker, Norway | T +47 6753 5337 | FAX +47 6753 5335



All specifications and features subject to change without notice. SatLink and the STM logo are a registered trademarks of STM Group, Inc. The DVB logo is a registered trademark of the DVB Project (www.DVB.org). DiSEqC is a trademark of Eutelsat.

Document #105536; Revision H - 080408