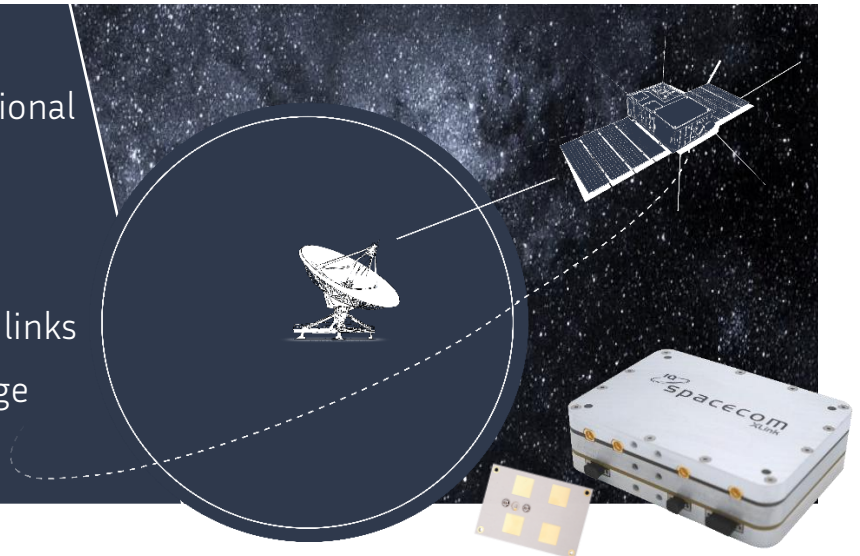


End-to-End Solution with XLink & AX-60

The One-Stop-Shop-Solution of IQ spacecom and WORK Microwave

- End-to-End solution for bidirectional satellite communication links
- Proven compatibility of space and ground segment
- XLink with SDR high-speed data links
- Micro, nano or pico satellite usage



XLink is an advanced transceiver system (Software Defined Radio – SDR) for X- and S-Band communication links of small satellites with a flight grade tested COTS design. The mechanical dimensions fit into CubeSats as well as larger satellites. Radio interfaces and protocols are compatible to standard CCSDS and DVB-S2 specifications. Gigabit Ethernet is provided as on-board control and high-speed data interface.

- **X-Band Tx operation:** 8.025-8.400 GHz
- **X-Band Rx operation:** 7.145-7.250 GHz
- **S-Band Tx operation:** 2.200-2.290 GHz
- **S-Band Rx operation:** 2.025-2.110 GHz
- **Data rate Sat2Ground:** 16 kbps up to 200 Mbps
- **Data rate Ground2Sat:** 3.5 kbps up to 896 kbps
- **Dimensions (x/y/z):** 90 x 65 x 25.3 mm³

The X- and S-Band patch antennas are based on flight proven designs for CubeSats and Small Satellite applications. They are cost effective and available for customizable Rx and Tx frequency ranges.

- **Operation frequency:** 8.025 – 8.400 GHz
7.145 – 7.250 GHz
1.980 – 2.500 GHz
- **Maximum gain:** 6 ... 18 dBi

AX-60 of WORK Microwave is part of this end-to-end solution. It is a 19-inch rack-mount modem unit and fully compatible with XLink transceiver. Both platforms connect with IP networks and provide easy-to-use straightforward connectivity. Supporting communication for the ground and space segments, the solution allows operators to reliably perform transmission tasks to and from satellites.

XLink and AX-60 represents a fully featured bidirectional communication system. Other frequencies are available on request.

A **Ground Converter Unit (GCU)** can be provided for easy integration into the ground segment and connection to ground stations and antennas.

FEATURES

- Utilization of CCSDS 131.0-B and 231.0-B and DVB-S2 via CCSDS 131.3-B
- Downlink: TM or Payload up to 200 Mbps
- Uplink: TC >56 kbps

Product specifications may be subject to change without notification.