XLink & AX-60

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

- End-to-end solution for satellite communication
- Proven compatibility of Space and Ground Segment
- XLink with SDR high-speed data links
- Micro, nano or pico satellite usage
- Bidirectional communication links
- Utilization of CCSDS 131.0 and 231.0
- Downlink/TM & Payload up to 100 Mbps
- Uplink/Telecommand 56 kbps

**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 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 Rx operation: 2.025-2.120 GHz
- Data rate Sat2Ground: 0.5 up to 100 Mbps
- Data rate Ground2Sat: 56 kbps+
- Linear RF output power: up to +30 dBm (2 x up to +27 dBm)
- Dimensions (x/y/z): 90 x 65 x 25.3 mm³

The **X and S band patch antenna** is a flight proven design for pico and nano satellite applications. It is cost effective and available for customizable Rx and Tx frequency ranges.

- Operation frequency: 8.025 – 8.400 GHz
  7.145 – 7.250 GHz
- Maximum gain: 11 dBi
- 3dB beam width: 40° x 40°
- Dimensions (x/y/z): 60 x 40 x 1.8 mm³

**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 to IP networks and provide easy-to-use, straightforward connectivity. Supporting satellite 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 ground segment and connection to ground stations and antennas.

Product specification may be subject to change without notification.