

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**
- **Utilization of CCSDS 131.0 and 231.0 and DVB-S2 via CCSDS 131.3**
- **Downlink/TM & Payload up to 200 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 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 pico and nano 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...11 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 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.