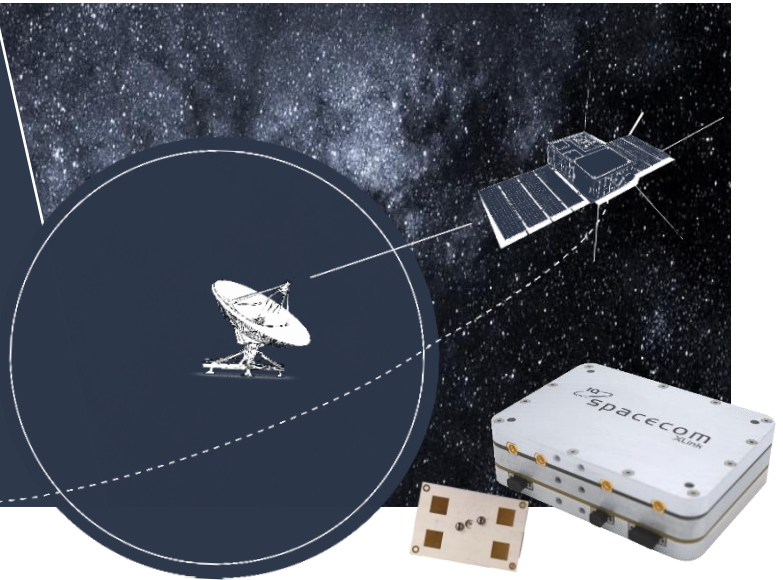# XLink & AX-60

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 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 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 ground segment and connection to ground stations and antennas.

FEATURES

- 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