



Ethernet-SpaceWire Bridge

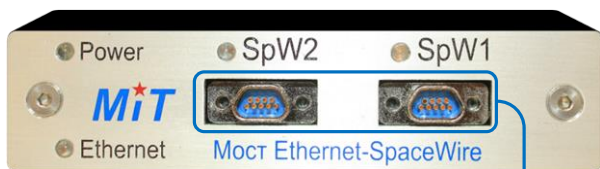
The Ethernet-SpaceWire Bridge is for connecting computing devices and complexes with Gigabit Ethernet network interface to a SpaceWire network

Functions

- Transmitting / receiving SpaceWire data and control codes via Ethernet interface
- Mode control, setting up SpaceWire links data transmission rate
- Configuring Ethernet interface for transmitting SpaceWire packets

Typical applications

- Managing and debugging a SpaceWire network by connecting a PC to the SpaceWire network via Ethernet interface
- SpaceWire data packets and control codes flows transmission and receiving between the SpaceWire network and the computer, computer systems in ground-based testing complexes



- 2 SpaceWire ports
 - Supports the data rates: 500, 400, 300, 200, 100, 50, 10 Mbps
- Ethernet port
 - Supports the data rates: 100, 1000 Mbps
- May be connected to the computer through Ethernet switches or routers
- Power supply: 5 to 12 V
- Size: 120 x 106 x 30 mm
- Can be mounted on a DIN rail to mount multiple modules on a rack

Supported OS

- **Windows:** 7, 10
- **Linux:**
 - Ubuntu 14.04 LTS
 - Ubuntu 16.04 LTS
 - CentOS release 7.5.1804 (Core)
 - Debian 9

The bridge comes with the advanced software support



Applications: • bridge configuration • data transmission (SpaceWire packets and control codes) • receiving data (SpaceWire packets and control codes), coming through Ethernet network interface



Application Programming Interface (API), allows to use Ethernet-SpaceWire bridge functions in multiple user applications. API is supported through SDK (C Library)