



USB2.0 Hi-Speed to SpaceWire Bridge

Part Number: BCAI-UHSS

Description

The BCAI-UHSS is a high-speed, compact Universal Serial Bus to SpaceWire adapter for interfacing USB devices with SpaceWire networks or other SpaceWire-compatible equipment. Designed for **ease of use**, it offers an API in C, along with example application code.

Its minimalistic design ensures **rapid integration**, even in non-ECSS compliant systems.

Ideal for testing, prototyping, or embedding into larger systems where space is limited.

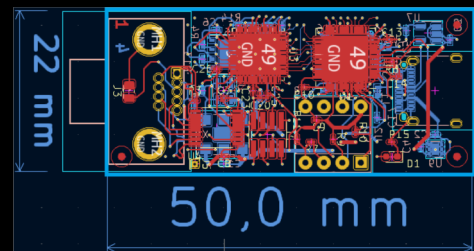
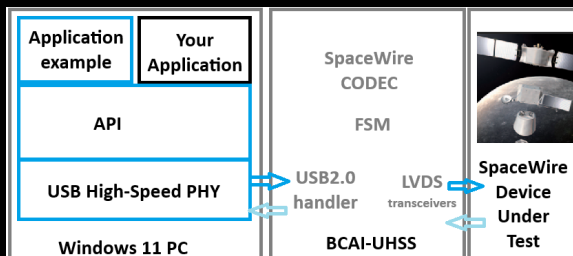
Specifications

Dimensions	1.975 × 0.867 × 0.45 in ³ (50 × 22 × 12 mm ³)
Power Supply	Via type-C USB connector (cable not provided)
Application Programming Interface	Lightweight DLL driver, installation instruction and C library: - bc_open(); - bc_close(); - bc_read(); - bc_write();
Software	Ready-to-use Application Example Includes built-in self-test
SpaceWire Port	1x ECSS-E-ST-50-12C compliant bidirectional link 9-contact micro-miniature D-type (plug)
SpaceWire Maximum Speed	120MHz system clock, providing: 120 Mbit/s (SDR), 240 Mbit/s (DDR) with configurable speed rates

Achievable throughput	Up to 40MBytes/s
Supported Operating System	Windows 11 - Contact us for other OS support

System Block Diagram Mechanical Drawing

The following diagram illustrates the USB SpW bridge product interconnection between your software application and your DUT.



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