

J I - W U B 2

USB 10G SWITCHER 2x1 WITH AUTO SWITCHING

USB 3.2 Gen2 2x1 switcher with 10Gbps bandwidth, automatic host switching, four USB device ports and RS232/GPIO control.

USB 3.2 GEN2	10 Gbps	2 x 1 HOST	AUTO SWITCH	4 DEVICES	RS232 / GPIO
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01 OVERVIEW

The Jistron JI-WUB2 is a professional USB 3.2 Gen2 2x1 host switcher designed to connect two USB-B hosts to a shared set of USB peripherals. The unit supports data rates up to 10Gbps, automatic or manual host switching, three USB-A device ports plus one USB-C device port, and control by front-panel button, RS232 or GPIO.

02 KEY FEATURES

- **2x1 USB host switching**
Two USB-B host ports share the connected USB device group.
- **Automatic switching**
AUTO mode provides automatic host selection; manual switching remains available.
- **RS232 & GPIO control**
Central control is supported using RS232 and GPIO in addition to the local button.
- **10Gbps USB performance**
USB 3.2 Gen2 architecture supports bandwidth up to 10Gbps.
- **Four USB device ports**
Three USB-A ports and one USB-C port support connected peripherals.
- **2A shared device power**
The four device ports share up to 2A total current for connected USB peripherals.

03 OPERATIONAL FUNCTIONS

USB 3.2 GEN2	10Gbps	AUTO MODE	BUTTON	RS232	GPIO
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04 CONTROLS & USB OPERATION

1 HOST SWITCHING

Front-panel SELECT switches between HOST 1 and HOST 2; a long press toggles automatic switching mode.

3 USB HOST INTERFACES

Two USB-B 3.2 Gen2 host ports connect to PC host systems.

5 RS232 CONTROL

3-pin serial interface supports system commands and configurable baud rates.

7 FIRMWARE SERVICE

Dedicated front USB-C firmware port supports product firmware upgrade.

2 AUTOMATIC MODE

AUTO indication illuminates when automatic host switching is enabled.

4 USB DEVICE INTERFACES

Three USB-A and one USB-C device port provide shared peripheral connectivity.

6 GPIO CONTROL

GPIO supports OFF, pulse and level modes for external host-selection control.

8 DEVICE POWER CONTROL

RS232 commands can manage the power state of all or individual USB device ports.

05 SYSTEM RELIABILITY & INTEGRATION

■ Over-current indication

The power LED flashes if the shared USB-device current is overloaded.

■ GPIO pulse mode

A high-to-low GPIO transition can force the USB device group to change host.

■ Central-control ready

RS232 and GPIO provide straightforward integration with room-control systems.

■ Host status indication

Dedicated host LEDs identify the currently selected host connection.

■ GPIO level mode

GPIO level can directly select HOST 1 or HOST 2 according to the configured mode.

■ KVM / room peripherals

Designed for shared USB cameras, speakerphones and other USB peripherals in meeting spaces.

06 TECHNICAL SPECIFICATIONS

HOST & USB DEVICES	
Host ports	2 x USB-B
Host connectors	2 x USB-B
Host bandwidth	Up to 10Gbps
Device ports	3 x USB-A, 1 x USB-C
Device connectors	3 x USB-A, 1 x USB-C
Shared device current	Three USB-A and one USB-C share 2A total current
USB version	USB 3.2 Gen2
CONTROL & SERVICE	
Control ports	1 x front button, 1 x RS232, 1 x GPIO
Control connectors	1 x white non-luminous button, 1 x 3-pin terminal block, 1 x 1-pin terminal block
Firmware port	1 x USB-C
Host switching	Manual and automatic
RS232 baud rates	9600 (default), 19200, 38400, 57600, 115200
GPIO modes	Off (default), Pulse and Level
POWER	
Power input	1 x 12V / 2A DC IN
Power connector	1 x locking block
Maximum power consumption	10.65W

06 TECHNICAL SPECIFICATIONS - CONTINUED

GENERAL	
Bandwidth	10Gbps
USB standard	USB 3.2 Gen2
Operating temperature	-5°C to +55°C
Storage temperature	-25°C to +70°C
Relative humidity	10% to 90%
Dimensions (W x H x D)	112 x 21.7 x 90 mm
Net weight	245 g

CONTROL BEHAVIOUR	
Automatic switching	Supported
GPIO pulse mode	Each HIGH-to-LOW transition switches the connected host
GPIO level mode	High/open selects HOST 1; low/ground selects HOST 2
Device power management	Individual or all device-port power control via RS232 commands
Status indication	Power, HOST and AUTO LED indicators

07 ORDERING INFORMATION

MODEL	DESCRIPTION	KEY CAPABILITIES
J1-WUB2	USB 3.2 Gen2 2x1 host switcher with automatic switching, four USB device ports and RS232/GPIO control.	10Gbps · Auto Switch · 4 Devices · RS232 · GPIO

08 ABOUT JISTRON

Jistron is a European audio-visual brand headquartered in Tallinn, Estonia. It supplies professional conference, control and AV infrastructure solutions for meeting rooms, command environments and integrated installations.

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