

J I - U 3 0 2 H

100M USB 3.2 GEN1 EXTENDER OVER HDBT

Professional USB 3.2 Gen1 extension system with up to 100m transmission distance, 5Gbps data throughput, 2x1 host switching, RS232 support and bi-directional 24V PoC.

USB 3.2 GEN1	5 Gbps	100 m	2x1 HOST	RS232	24V PoC
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01 OVERVIEW

The Jistron JI-U302H is a USB 3.2 Gen1 extension solution designed to extend USB connectivity up to 100 meters over HDBaseT-class cabling. The host unit provides Type-B and Type-C connections for PC or laptop integration, while the system supports local device ports for speakerphone and headset connectivity, manual or automatic host switching, RS232 passthrough/control/upgrade and bi-directional 24V PoC power distribution.

02 KEY FEATURES

- 100m USB extension

Extends USB 3.2 Gen1 connectivity up to 100 meters using CAT6A cabling.
- 2x1 host switching

Two host interfaces support automatic or manual source selection.
- Bi-directional 24V PoC

Either side of the link can power the system using 24V PoC.
- 5Gbps data rate

Supports high-speed USB 3.2 Gen1 transmission up to 5Gbps.
- RS232 integration

Supports RS232 control, passthrough and firmware upgrade modes.
- Conference USB support

Ideal for speakerphone, headset and peripheral extension in meeting spaces.

03 USB, EXTENSION & CONTROL

USB 3.2	5Gbps	100m	RS232	PoC	AUTO / MANUAL
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04 SIGNAL MANAGEMENT & SYSTEM FUNCTIONS

1 2x1 host connectivity

Provides one Type-B USB and one Type-C USB host connection for PC or laptop integration.

3 Manual host selection

Front-panel AUTO/3s button allows local switching between available host sources.

5 Long-distance extension

USB signal is transmitted up to 100m over CAT6A cable using the HDBT-USB3 link.

7 PoC power transport

Bi-directional 24V PoC simplifies installation by allowing power from either side of the link.

2 Automatic switching

In AUTO mode the system selects the first detected or newly connected host automatically.

4 RS232 operating modes

Rear selector supports control, passthrough and firmware-upgrade functions via RS232.

6 Local USB device support

Local USB-A ports support peripherals such as speakerphones and headsets.

8 Status indication

LEDs provide power and active-host indication for quick visual status confirmation.

05 APPLICATION HIGHLIGHTS

■ Unified-room USB extension

Bridges USB hosts and room peripherals across long distances for conference and collaboration environments.

■ Simple host management

AUTO mode and front-panel selection make switching between host systems fast and intuitive.

■ Reliable installation

RS232, PoC and dedicated HDBT-USB3 connectivity support flexible and serviceable deployments.

■ Professional integration

Designed for AV and UC spaces where USB transport and control must remain stable over distance.

06 TECHNICAL SPECIFICATIONS

USB & HOST	
Host connectors	1 x Type-B USB, 1 x Type-C USB
Local device connectors	2 x Type-A USB
Device power	5V 500mA total
USB version	USB 3.2 Gen1
Data rate	5Gbps
Transmission distance	Up to 100m with CAT6A cable
CONTROL & LINK	
Control methods	Front button, RS232 and DIP switch
Control connectors	1 x white button, 1 x 3-pin terminal block, 1 x 2-pin DIP switch
RS232 functions	Control, passthrough and firmware upgrade
HDBT link	1 x RJ45 HDBT-USB3 connection
PoC standard	Bi-directional 24V PoC
Status indication	Power LED, host-select LEDs and AUTO status LED
CONNECTIVITY NOTES	
Host selection	AUTO/3s front key switches host or toggles AUTO mode
Local peripheral use	Designed for peripherals such as speakerphone and headset
Recommended cable	CAT6A for full 100m transmission performance
Power input	DC 24V / 1.5A via barrel connector

06 TECHNICAL SPECIFICATIONS - CONTINUED

GENERAL	
Operating temperature	-10°C to 55°C
Storage temperature	-25°C to 70°C
Relative humidity	10% to 90%
External power supply	DC 24V 1.5A
Power consumption	6.4W (max)
Dimensions (W x H x D)	133.0 x 21.5 x 105.0 mm
Net weight	325 g

SYSTEM SUMMARY	
Product type	100m USB 3.2 Gen1 Extender over HDBT
Host-side inputs	Type-B USB and Type-C USB
Extended use case	USB host transport for professional AV / UC integration
Control support	Manual switching, AUTO mode, RS232 control and upgrade
Power architecture	Bi-directional 24V PoC

07 ORDERING INFORMATION

MODEL	DESCRIPTION	KEY CAPABILITIES
J1-U302H	100m USB 3.2 Gen1 extender over HDBT with 2x1 host switching, RS232 support and bi-directional 24V PoC.	5Gbps · 100m · AUTO/MANUAL · RS232 · PoC

Technical specifications are derived from the J1-U302H product documentation and are subject to change without prior notice.

08 ABOUT JISTRON

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