AVOCENT® LV 5000 SERIES

High-resolution DisplayPort video extension over a single cable

VERTIV™

FEATURES

- **High-definition Display Port Video**
  Supports DisplayPort Dual Mode (DP++) and can transmit maximum resolution of up to 3840x2160 (UHD 4K) with a single monitor, or two 1920 x 1200 (WUXGA) video streams in a dual monitor configuration.

- **USB 2.0**
  Enables connection of up to six USB human interface devices including mice, keyboards, graphics tablets, touchscreens, jog shuttles, joysticks, 3D explorers, mass storage devices and isochronous devices like webcams and headsets.

- **HD-quality**
  High definition analog stereo audio input and output. S/PDIF input also supported.

- **Plug and play**
  The LV5000 Series extenders are delivered in a zero config state so you can plug them in and start working right away. There's no need for drivers or software to be installed.

The Avocent® LV5000 series of high performance extender solutions provide an at the desktop experience in environments where conditions make it is advantageous to operate and manage critical business systems from a secure, monitored location. Users can access systems and applications remotely without sacrificing video quality, audio quality or device capability.

High-performance extenders can be used in control rooms and traditional desktop settings and are most often used in broadcast, emergency management, industrial and energy organizations. The LV5000 series is, specifically, well-suited for applications that require extreme video and audio quality, like video post production, picture archiving and communication (PACS), radiology information systems (RIS) and video security.

Pixel Perfect Video Every Time

The LV5000 series support DisplayPort Dual Mode video and offers pixel-perfect video resolutions for demanding applications. Users can choose to have a maximum resolution of 3840x2160 (UHD 4K) with a single monitor or 1920 x 1200 (WUXGA) resolution in a dual monitor configuration. Picture quality is delivered through an uncompressed system whereby every pixel of every frame is sent without loss.

Extension, Not Exclusion

The LV5000 does more than just extend system control. It provides a full-function connection that enables up to six USB 2.0 human interface devices including mice, keyboards, graphics tablets, jog shuttles, joysticks and 3D explorers. Mass storage and isochronous devices, such as webcams and headsets, can be used through the transparent USB 2.0 high-speed port. High-definition audio recording and playback is also supported.

Technical Specifications

Hardware compatibility	All computers with Display Port, USB and audio requirement dependent.
DisplayPort Interface	DisplayPort Dual Mode (DP++)Single monitor resolutions up to 3840x2160@30Hz (UHD 4K) with a single monitor Dual monitor resolutions up to 1920 x 1200 (WUXGA DPCP and HDCP are not supported.
USB 2.0 Low and Full speed	Supports up to six USB 2.0 devices (low or full speed). HID devices are supported on ports marked "A" and isochronous devices (i.e. USB audio or video devices) on the Hi-Speed link only marked "B".
Audio	High-definition analog stereo audio (Line in, Line out), supports microphone input and headphones. S/PDIF (optical input) via a 3.5mm jack line in connector (mini Toslink).
Computer connections Transmitter (TX)	DisplayPort x 2, Audio 3.5mm in, Audio 3.5mm out, USB type B x 2, RS232 10p10c options port, (S/PDIF) via the 3.5mm audio in port.
Computer connections Receiver (RX)	DisplayPort ++ x 2, Audio 3.5mm in, Audio 3.5mm out, Headphone 3.5mm out, Microphone 3.5mm in, USB type A x 4, RS232 10p10c options port.
Operating temperature	0 to 40ºC / 32 to 104ºF.
Approvals	CE, FCC, UL
Physical Design	Compact case, robust metal construction 198mm/7.92" (w), 44mm/1.76" (h), 120mm/4.8" (d), 0.75kg/1.65lbs.
Power	2.5mm DC jack (power adapter included), 100-240VAC 50/60Hz, 0.8A, input to power adapter, 5VDC 20W output from power adapter.
Important extension distance details	Recommended cables are CAT7 shielded foiled twisted pairs: Daetwyler 7702 — Flexible patch cable Daetwyler 7120 — Bulk cable
Res (@30Hz) Cable Patches Distance-4K	3860 x 2160@30Hz or two 1920 x 1080, CAT7 Bulk (Trunk) @ 100m 3860 x 2160, CAT7 Patch @ 80m 3860 x 2160, CAT6a @ 70m 3860 x 2160, CAT5e @ 60m Single 1920 x 1080, CAT5e @ 150m
Res (@60Hz) Cable Patches Distance	2560 x 1600@60Hzor two 1920 x 1080, CAT7 Bulk (Trunk) @ 100m 2560 x 1600, CAT7 Patch @ 80m 2560 x 1600, CAT6a @ 70m 2560 x 1600, CAT5e @ 60m Single 1920 x 1080, CAT5e @ 150m

Note: Distances are achieved using single lengths of trunk/bulk cable with two 3 meter CAT7a patch cables. For each additional break/patch connection reduce distance by 5 meters. referably patch cables should be of type CAT7a and less than 2 meters. Patch cables over 2 meters must be CAT7a.

Ordering Details

PART NUMBER	DESCRIPTION
LV5020P	LongView dual display port, USB, audio, CATx 50M
RMK-81	19 in. Rackmount kit for 2 LV 5000
RMK-82	19 in. Rackmount kit for 1 LV 5000
RMK-83	19 in. VESA mount kit for 1 LV 5000
PSC0005	Power Supply LV 5000, HMX 5000/6000

VertivCo.com | **Vertiv Headquarters,** 1050 Dearborn Drive, Columbus, OH, 43085, USA