









SEAMLESS AND CYBERSECURE CONNECTION

Between VirtuoSIS Link and VirtuoSIS-based intercom server

UL CERTIFIED PRODUCT

Materials, components and end product are tested in area of product safety

LONG LASTING COMPATIBILITY

Stepwise migration of classic intercom solutions into Symphony based intercom solutions

VIRTUOSIS LINK

CONNECT 2-WIRE TO VIRTUOSIS

VirtuoSIS Link is the ideal connection between classic 2-wire devices and modern VirtuoSIS based servers. It even allows to utilise newest Symphony Cloud based services via Symphony Bridge. As a result, it ensures long-lasting compatiblty and enables sustainable expansion of Commend intercom solutions in accordance with Commend's "Evergreen Technology" philosophy.

VirtuoSIS Link not only provides Commend's latest technology, but also helps to save time and money.

RELIMINARY

HIGHLIGHTS

- Seamless and cyber-secure connection between VirtuoSIS Link and VirtuoSIS-based intercom server
- Enables easy and stepwise migration of classic intercom solutions
- Reduces system costs by reusing existing cable infrastructure
- Small form factor with high subscriber density (8 subscribers per VirtuoSIS Link)
- Suitable for centralised 19" rack mounting (up to 2 VirtuoSIS Link per RU) as well as decentralised mounting on walls or in cabinets
- Highest availability due to optional redundant power supply and network connection
- Low maintenance, energy-efficient and fanless design

TECHNICAL DATA

GENERAL

Article name: VirtuoSIS Link
Article code: C-SIS-LINK-8

CONNECTIONS AND PORTS

Network: 2 RJ45 ports for Ethernet (10/100 Mbit/s)

Cabling: min. Cat. 5, shielded ¹⁾

USB: USB 2.0 (type A), useable only for device

update max.: 2.5 W

Connection: D-SUB subscriber plug for 8 subscribers (2

contacts per subscriber) 2)

Subscriber plug with spring-type terminals (2 contacts per subscriber, conductor cross section: 0.5 mm² to 1.5 mm²/AWG24 to AWG16, stripping

length: 10 mm) 2)

Power supply with spring-type terminals (conductor cross section: 0.5 mm² to 1.5 mm²/AWG20 to AWG16, stripping

length: 10 mm) 3)

Outputs: Supply status solid state relay 3)

max. electric current: 140 mA max. voltage: 30 VDC max. power: 4.2 W

LINE LENGTH

For line length specifications of connected 2-wire end devices, see the respective device data sheet. Apply line length for GE 300/GE 800 and 30 VDC power supply or external power supply.

APPROVALS AND COMPLIANCES

Device: EN 61000-6-2, EN 61000-6-3, EN 55032

Class B, EN 55035, FCC Part 15 Class B, ICEIS-003 Class B, EN 60529 IP20, EN 62368-1, IEC 62368-1 (CB-Scheme),

UL 62368-1 (Listed E351589)

MECHANICAL PROPERTIES

IP rating: IP20 (acc. to EN 60529)
Housing: polycarbonate and metal

Operating temperature: -10 °C to +55 °C (+14 °F to +131 °F) Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F)

Relative humidity: up to 95%, not condensing

POWER SUPPLY

External power supply 2): typ.: 24 VDC

min.: 20 VDC, max.: 30 VDC

Power consumption: idle: approx 10 W

max.: 30 W

DIMENSIONS (H × W × D)

Dimensions: $250 \times 201 \times 43.6 \text{ mm} (9.84 \times 7.91 \times 1.72 \text{ in})$

SYSTEM REQUIREMENTS

- VirtuoSIS server (S3, S6 or VirtuoSIS)
- VirtuoSIS licence "L-SIS-15" or higher
- Licences for a subscriber ports can bei either type, L-SIS-IP or L-SIS-SIP: L-SIS-IP-2B, L-SIS-IP-2D, L-SIS-IP-8B, L-SIS-IP-8D, L-SIS-SIP-2B, L-SIS-SIP-2D, L-SIS-SIP-8B, L-SIS-SIP-8D

EXTENT OF SUPPLY

- VirtuoSIS Link
- Short reference

¹⁰ The maximum line length of Cat. 5 cabling in a LAN is 100 m (328 ft) – e.g. from switch to device.

 $^{^{\}mathfrak D}$ All USB and subscriber connectors are declared and proved PS1 ports (according to EN/UL/IEC 62368-1).

³⁾ All connected circuits must meet the following safety requirements: 1. Safety extra-low voltage (SELV) and limited power supply (LPS) according to IEC/EN 60950-1 or

^{2.} ES1, PS2 circuits and Annex Q (power-limited power supply) according to IEC/EN/UL 62368-1.

A PS2 circuit must limit the power supplied to a maximum of 100W. A SELV/ES1 circuit must be safely separated from a dangerous electrical circuit (e.g. 230 V or 110 V mains power), e.g. by double insulation. The SELV circuit must not exceed 60 V DC or 42.4 V ACpeak (30 V ACeff)!

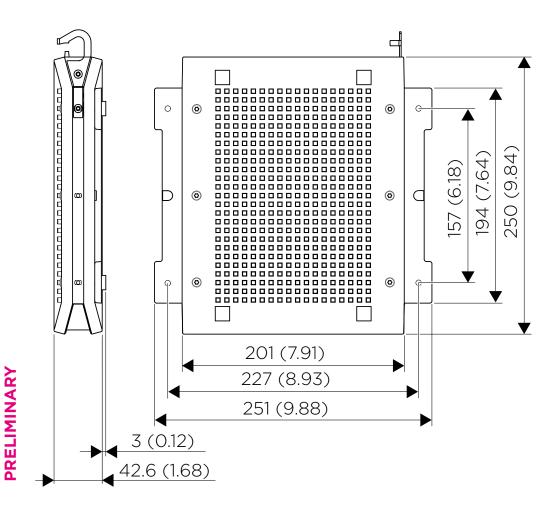
SAFETY WARNINGS

- This device shall be installed or replaced by trained and qualified personnel only.
- Observe the country-specific standards for installation, mounting and configuration.
- Only use Commend accessories that comply with the Intercom device's technical specifications.
- For installing the device in a 19-inch rack, the following mount kits are available separately:
 Rack mount kit PF-RM.
- For installing the device on a wall or desk, the following mount kits are available separately:
 Wall mount and desk kit PE-WM
- Devices belonging to another earthing network must not be connected to the device's connectors.
- All connected circuits shall fulfil the following requirements:
 - Safety Extra Low Voltage (SELV) and Limited Power Source (LPS) according to IEC/EN 60950-1 or
 - ES1, PS2 circuits and Annex Q (Limited Power Source) according to IEC/EN/UL 62368-1.
- Disconnect the Ethernet cable for any maintenance of the device.
- Do not make any modifications to the Intercom device.
- Permanent earthing of the device must be guaranteed.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

RACK MOUNT INSTRUCTIONS

This device shall be installed or replaced by trained and qualified personnel only. The following is advised:

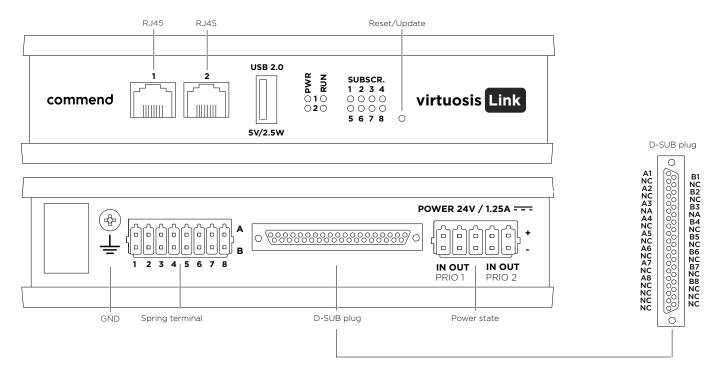
- Operating Ambient Temperature: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment
 may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the
 maximum ambient temperature (Tma) specified by the manufacturer.
- Air Flow: Rack installed components require constant air flow for safe operation.
- Mechanical Loading: Mounting of the equipment in the rack must not lead to uneven mechanical loading tp prevent hazardous situations.
- Circuit Overloading: Power supply circuit need to have an overcurrent protection. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- Reliable Earthing: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips)."



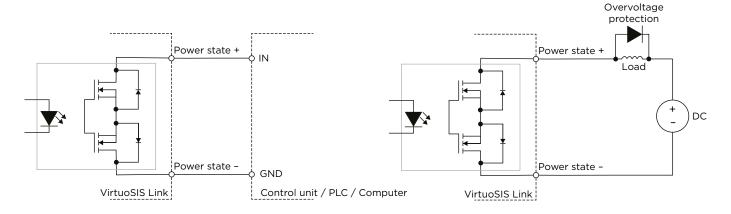
CONNECTIONS

The second RJ45 connection can be used for redundant network connection or as a network switch, to connect up to 4 VirtuoSIS Link devices in series

The power supply can be used to connect up to 3 VirtuoSIS Link devices in series.



POWER STATE OUTPUT CIRCUIT



Note: It is recommended to integrate external overvoltage protection (especially for inductive loads).

ACCESSORIES



PF-RM-1HE – 19" rack mounting kit for 1 or 2 VirtuoSIS Link side-by-side or for rack mounting one VirtuoSIS Link. Height: 1 RU.



PF-WM - Wall mount kit and desktop kit for 1 VirtuoSIS Link.



PA30W24V-EU - 30 Watts plug-in power supply, input: 100-240 VAC with solid EU plug, output: 24 VDC with open cable tails. Cable length: 1.5 m. Attention: not compliant to UL 62368-1 (cULus)



PA30W24V-CA-30Wattsplug-inpowersupply,input:100-240VACwithinterchangeableplugs(AU/UK/US),output:24 VDC with open cable tails. Cable length: 1.5 m.Attention: not compliant to UL 62368-1 (cULus)



PA60W24V - 60 Watt Desktop power supply, input: 100-240 VAC with IEC-60320-C14 connection, output: 24 VDC with open cable tails - cable length: 1.5 m (IEC cable KAB-C13 not included). Attention: not compliant to UL 62368-1 (cULus)



ASK 32-5 - 32-stranded connection cable with D-Sub connector, suitable for direct installation on LSA Plus connection modules. Length: 5.0 m.



ASK 32-10 - 32-stranded connection cable with D-Sub connector, suitable for direct installation on LSA Plus connection modules. Length: 10.0 m.



ASK 32-20 - 32-stranded connection cable with D-Sub connector, suitable for direct installation on LSA Plus connection modules. Length: 20.0 m.

Commend products are developed and manufactured by Commend International in Salzburg, Austria. Our development and manufacturing processes are **certified** in accordance with **EN ISO 9001:2015**. Since mid-2020 Commend International GmbH has been **EN ISO 27001:2013 certified** throughout.



For reasons of technical further development, the design and/or specifications of products are subject to change without prior notice. All errors excepted.