

SHDSL.bis

Up to 11.4 Mbps

E1 / Ethernet Extender-Repeater over 2-4 copper wires



S-Access Etherlink II Repeater

TDM Based SHDSL.bis



Features

- SHDSL and SHDSL.bis (TC-PAM16/32)
- Up to 5.7Mbps over Single and up to 11.4Mbps over Dual pair of Copper
- Up to 4 Repeaters in Line
- Add/Drop Ethernet Bridge (10/100BaseT)
- Console Port, Telnet, Web, SNMP Management
- Locally or Remotely Powered
- Low Power Consumption
- Desktop, DIN Rail, and IP67 Housings
- OEM Versions Available

The S-Access Etherlink_II SHDSL.bis product family includes a unique range of SHDSL repeaters. The support of TC-PAM 8, TC-PAM16, and the new TC-PAM32 line coding allows seamless integration into existing DSL infrastructures, which is also the reason why S-Access Etherlink_II repeaters are used by numerous SHDSL manufacturers around the world.

The support of SHDSL.bis allows the extension of symmetrical data and voice transmission at speeds of up to 5.7Mbps over a single pair of copper. Additionally, the S-Access Etherlink_II SHDSL.bis repeaters support DSL channel bonding with up to two copper pairs in order to extend speeds up to 11.4Mbps!

S-Access Etherlink_II SHDSL.bis repeaters offer an add/drop Ethernet bridge (10/100BaseT) facility, ensuring maximum connectivity at sites where the business case may not justify expensive DSL nodes.

Like all S-Access Etherlink products, S-Access Etherlink_II SHDSL.bis repeaters are based on industrial components and manufactured according to the highest quality standards thus providing additional value due to extended temperature range operation and high reliability.

A comprehensive set of desktop, DIN Rail, and IP67 housings should make S-Access Etherlink_II repeaters your product of choice to reach your customers.



Ethernet Add/Drop Repeater Application with remote Power and local Power

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S-Access Etherlink_II SHDSL.bis Standalone Repeater



The most common S-Access Etherlink_II Repeater extends single pair SHDSL (TC-PAM16/32) up to 5.7Mbps. It offers Ethernet add/drop functionality (10/100BT, Bridge) and comes in a plastic desktop housing. The repeater can be powered locally or remotely over the DSL line. Therefore it is configurable as power “end-point” terminating power transmitted over the DSL line, or power “pass-through”, passing power on to another repeater or CPE device on the DSL line.

The Etherlink_II SHDSL.bis Repeater comes in a robust (RAL 5003) desktop plastic housing. The housing is stackable and was designed for in-door use only.

Model: SA-REP-ETHERLINK_II_ETH

DSL Version: SHDSL / SHDSL.bis
Modulation: TC-PAM16 / TC-PAM32
Data Rate: 192kbps - 5.7Mbps
Copper Pairs: 1
Modes: Master / Slave
Interface: 1x Ethernet Bridge (10/100BaseT)
Power: -48VDC, accepts local and remote power
Physical Interfaces: RJ48 (E1 not used), RJ45 (Ethernet), RJ48 (SHDSL), Molex (Power), DB9 (Management)
Management: Console Port, Telnet , HTTP, and SNMP via TCU
Power Supply: Not Included
Dimensions: 220x155x50cm (LxWxH)
Operating temperature: -25 – +80°C

Model: SA_REP_2N_ETHERLINK_II_ETH

DSL Version: SHDSL / SHDSL.bis
Modulation: TC-PAM16 / TC-PAM32
Data Rate: 192kbps - 5.7Mbps (SA_REP_ETHERLINK_II_ETH_IPP_67A)
192kbps - 11.4Mbps (SA_REP_2N_ETHERLINK_II_ETH_IPP_67A)
Copper Pairs: 1 (SA_REP_ETHERLINK_II_ETH_IPP_67A)
2 (SA_REP_2N_ETHERLINK_II_ETH_IPP_67A)
Modes: Master / Slave
Interface: 1x Ethernet Bridge (10/100BaseT)
Power: -48VDC, accepts local and remote power
Physical Interfaces: RJ45 (Ethernet), Terminal Block (SHDSL, Power), RJ45 (Management)
Management: Console Port, Telnet , HTTP, and SNMP via TCU
Power Supply: Not Included
Dimensions: 290x170x70cm (LxWxH)
Operating temperature: -25 – +80°C

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S-Access Etherlink_II SHDSL.bis DIN Rail Repeater



When Rail mounting is a requirement the S-Access Etherlink_II Repeater with DIN Rail case is the right choice, extending single pair SHDSL (TC-PAM16/32) up to 5.7Mbps. It offers Ethernet add/drop functionality (10/100BT, Bridge) and comes in a blue (RAL 5003) powder coated metal housing with white labeling.

The repeater can be powered locally or remotely over the DSL line. Therefore, it is configurable as power "end-point" terminating power transmitted over the DSL line or power "pass-through" passing power on to another repeater or CPE device on the DSL line.

Model: SA_REP_ETHERLINK_II_ETH_D_RAIL

DSL Version: SHDSL / SHDSL.bis

Modulation: TC-PAM16 / TC-PAM32

Data Rate: 192kbps - 5.7Mbps

Copper Pairs: 1

Modes: Master / Slave

Interface: 1x Ethernet Bridge (10/100BaseT)

Power: -48VDC, accepts local and remote power

Physical Interfaces: RJ48 (E1 not used), RJ45 (Ethernet), RJ48 (SHDSL), Molex (Power), DB9 (Management)

Management: Console Port, Telnet, HTTP, and SNMP via TCU

Power Supply: Not Included

Dimensions: 220x165x45cm (LxWxH)

Operating temperature: -25 – +80°C

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S-Access Etherlink_II SHDSL.bis IP67 Repeater



For harsh environments and outdoor use S-Access Etherlink_II Repeaters are also available in cost effective and high profile aluminum enclosures, extending single or dual pair SHDSL (TC-PAM16/32). It offers Ethernet add/drop functionality (10/100BT, Bridge) and is protected by an IP-67 aluminum housing. The repeater can be powered locally or remotely over the DSL line. Therefore, it is configurable as power “end-point” or “pass-through”.

The cost effective gray IP67 housing (RAL 7032) offers two PG13 cable glands for up to four cable entries.

**Model: SA_REP_ETHERLINK_II_ETH_IPP_67A
SA_REP_2N_ETHERLINK_II_ETH_IPP_67A**

DSL Version: SHDSL / SHDSL.bis

Modulation: TC-PAM16 / TC-PAM32

Data Rate: 192kbps - 5.7Mbps (SA_REP_ETHERLINK_II_ETH_IPP_67A)

192kbps - 11.4Mbps (SA_REP_2N_ETHERLINK_II_ETH_IPP_67A)

Copper Pairs: 1 (SA_REP_ETHERLINK_II_ETH_IPP_67A)

2 (SA_REP_2N_ETHERLINK_II_ETH_IPP_67A)

Modes: Master / Slave

Interface: 1x Ethernet Bridge (10/100BaseT)

Power: -48VDC, accepts local and remote power

Physical Interfaces: RJ45 (Ethernet), Terminal Block (SHDSL, Power),

RJ45 (Management)

Management: Console Port, Telnet , HTTP, and SNMP via TCU

Power Supply: Not Included

Dimensions: 290x170x70cm (LxWxH)

Operating temperature: -25 – +80°C

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S-Access Etherlink_II SHDSL Repeater Overview

Repeater (ETHERLINK II), Ethernet Bridge Overview



Table Top	DIN Rail Mount	Protected Housing	2 wire (5,7Mb)	4 wire (11,4Mb)	Ethernet Bridge	Dual Pair Bonding	Multi-Service	Point to Point	Ethernet Add/Drop	Cross Connect	Remotely powerable	Console Port Management	Telnet Management	Web Management	SNMP Management	

- SA_REP_ETHERLINK_II_ETH
- SA_REP_ETHERLINK_II_ETH_D_RAIL
- SA_REP_ETHERLINK_II_ETH_IP67A
- SA_REP_2N_ETHERLINK_II_ETH_IP67A
- SA_REP_2N_ETHERLINK_II_ETH

