

**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64**

# S-Access Etherlink\_IV

## TDM Based SHDSL.bis



### Features

- SHDSL.bis based on TC-PAM4/8/16/32/64/128 for single and multiple pair operation
- Up to 15.2Mbps over single and up to 60.8Mbps over four pair copper
- Multiservice E1 (G.703/704) and Nx64 (V.35/36, X.21) Ethernet Interfaces
- Daughterboard's: RS-232/485/422, In-/Output, Real Time Clock, Memory for Log, Bluetooth
- Support of SFPs Fiber uplink
- Layer 2 managed Ethernet Switch with VLAN support (10/100BaseT)
- Spanning Tree (RSTP) for ring applications
- Built-in cross-connect (Multipoint)
- Regenerator/Repeater available
- Remote power feature (120/200VDC)
- Console, Telnet, and SNMP management
- Desktop, Rackcard, and Minirack form factors
- Extended temperature range
- High quality and high performance

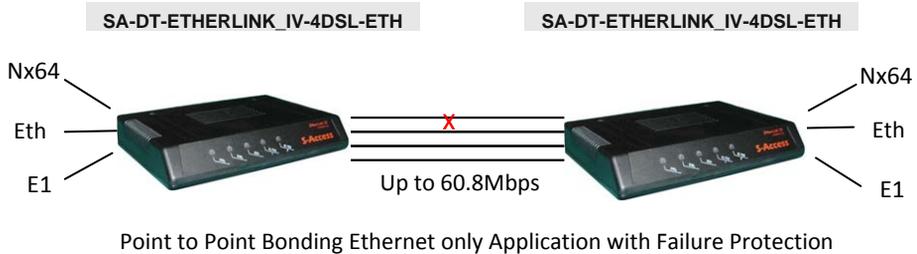
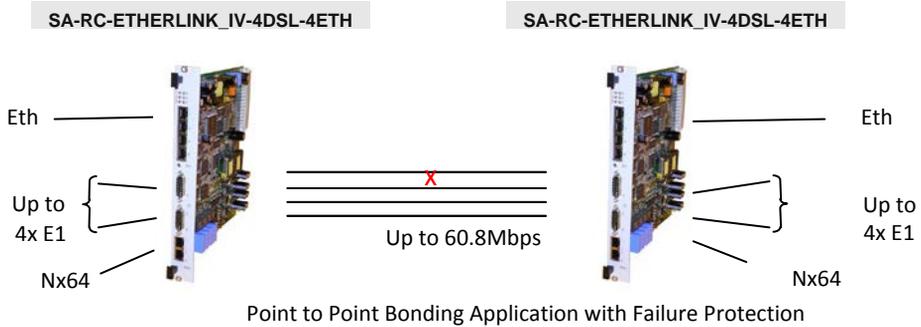
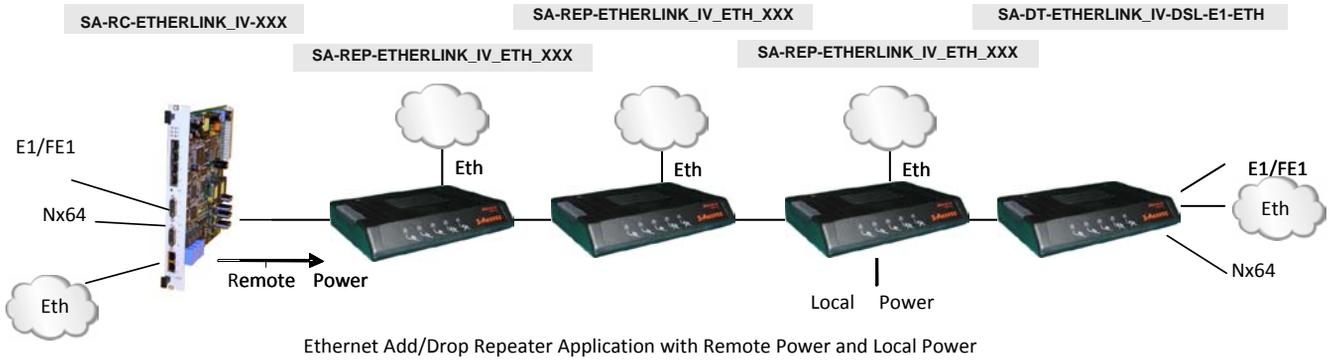
The S-Access Etherlink\_IV SHDSL.bis product family offers a broad range of products, which are based on the latest SHDSL.bis standard (ITU-T G.991.2 & ETS TS 101 524), while also being fully interoperable with existing SHDSL equipment. The S-Access Etherlink\_IV supports TC-PAM8/16/32 and the new TC-PAM64/128 line coding. The support of these line codes ensures compatibility with existing SHDSL equipment, that is already installed, in order to protect customer investments, while at the same time providing an upgrade path to the newest DSL technologies.

SHDSL.bis Extended allows symmetrical data and voice transmission at speeds up to 15.2 Mbps over a single pair of copper. In addition, the S-Access Etherlink\_IV SHDSL.bis modem range also supports DSL channel bonding for up to 4 copper pairs in order to achieve speeds to 60.8Mbps! This incredible speed makes Fiber installations in many places needles. This S-Access Etherlink\_IV SHDSL.bis modems can provide up to 4 complete E1 interfaces, which support framed and unframed services (G.703/G.704). An integrated 2 or 4 port Ethernet switch with VLAN support (10/100BaseT) ensures connectivity to IP services. This makes S-Access Etherlink\_IV SHDSL.bis modems a perfect solution for a wide range of applications in which TDM and IP services need to be transmitted over copper wires.

Like all S-Access Etherlink products the S-Access Etherlink\_IV SHDSL.bis modems are based on industrial components and manufactured according to highest quality standards providing additional value due to the extended temperature ranges and higher reliability. The combination of comprehensive functions providing maximum flexibility together with the higher quality of the S-Access Etherlink\_IV SHDSL.bis product family make it the perfect choice for all your DSL needs.

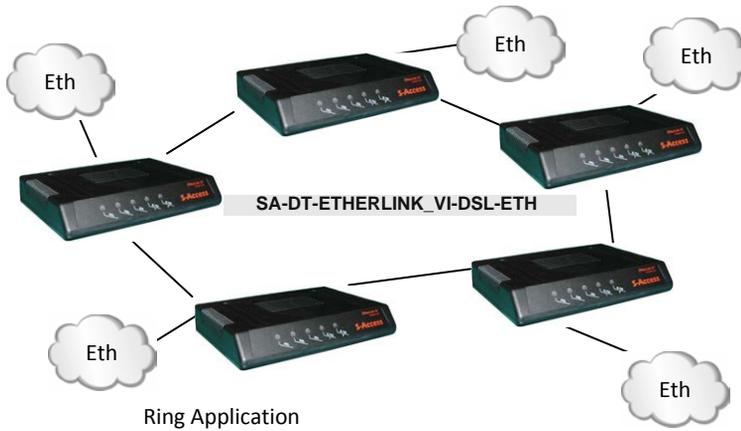
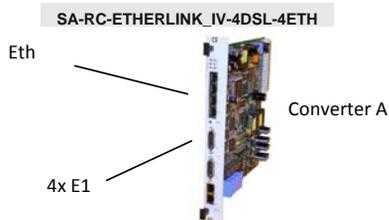
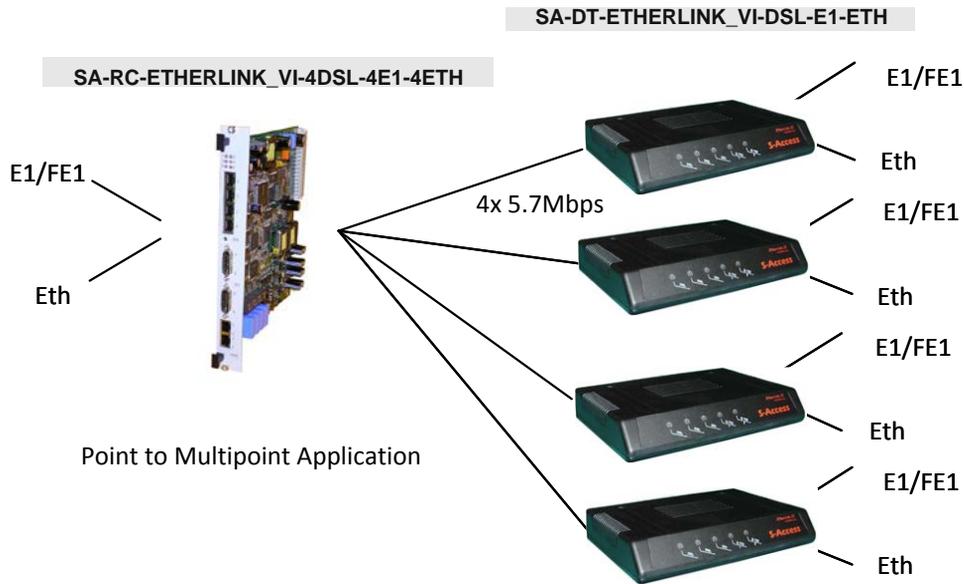
<b>SHDSL.bis</b>
<b>Up to 60Mbps</b>
<b>E1 / Ethernet / Nx64</b>

## S-Access Etherlink\_IV SHDSL.bis Applications



SHDSL.bis
Up to 60Mbps
E1 / Ethernet / Nx64

## S-Access Etherlink\_IV SHDSL.bis Applications



**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64****S-Access ETHERLINK\_VI SHDSL.bis Desktop Modem****Model: SA-DT-ETHERLINK\_IV-DSL-ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 15,232 Mbps  
 Copper Pairs : 1  
 Modes : Master / Slave / Auto  
 Interface : Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 72 VDC, accepts local and remote power  
 Physical Interfaces : RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management)  
 Management : Console Port, Telnet, HTTP and SNMP via TCU  
 Power Supply : MDS95XE-PS included

**Model: SA-DT-ETHERLINK\_IV-2DSL-ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 30,464 Mbps, 2x15,232 Mbps  
 Copper Pairs : 2  
 Modes : Master / Slave / Auto / Multipair  
 Interface : Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 72 VDC, accepts local and remote power  
 Physical Interfaces : RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management)  
 Management : Console Port, Telnet, HTTP and SNMP via TCU  
 Power Supply : MDS95XE-PS included

**Model: SA-DT-ETHERLINK\_IV-DSL-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 15,232 Mbps  
 Copper Pairs : 1  
 Modes : Master / Slave / Auto  
 Interface : 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 230 VDC, accepts local and remote power  
 Physical Interfaces : RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
 Management : Console Port, Telnet, HTTP and SNMP  
 Power Supply : 90-260VAC MDS95XE-PS included

**Model: SA-DT-ETHERLINK\_IV-2DSL-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 30,464 Mbps, 2x15,232 Mbps  
 Copper Pairs : 2  
 Modes : Master / Slave / Auto / Multipoint / Multipair  
 Interface : 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 230 VDC, accepts local and remote power

**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64****S-Access ETHERLINK\_VI SHDSL.bis Desktop Modem****Model: SA-DT-ETHERLINK\_IV-DSL-2E1-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
Data Rate : 128kbps - 15,232 Mbps  
Copper Pairs : 1  
Modes : Master / Slave / Auto  
Interface : 2xE1 (75/120 Ohm), 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
Power : 36 to 230 VDC, accepts local and remote power  
Physical Interfaces : RJ48 (E1), RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
Management : Console Port, Telnet, HTTP and SNMP  
Power Supply : 90-260VAC MDS95XE-PS included

**Model: SA-DT-ETHERLINK\_IV-2DSL-2E1-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128 / TC-PAM128  
Data Rate : 128kbps - 30,464 Mbps, 2x15,232 Mbps  
Copper Pairs : 2  
Modes : Master / Slave / Auto / Multipoint / Multipair  
Interface : 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
Power : 36 to 230 VDC, accepts local and remote power  
Physical Interfaces : RJ48 (E1), RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
Management : Console Port, Telnet, HTTP and SNMP  
Power Supply : 90-260VAC MDS95XE-PS included

**Model: SA-DT-ETHERLINK\_IV-4DSL-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128 / TC-PAM128  
Data Rate : 128kbps - 60,828 Mbps, 4x15,232 Mbps  
Copper Pairs : 4  
Modes : Master / Slave / Auto / Multipoint / Multipair  
Interface : 4xEthernet 10/100BaseT (Layer 2 Managed Switch)  
Power : 36 to 230 VDC, accepts local and remote power  
Physical Interfaces : RJ48 (E1), RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
Management : Console Port, Telnet, HTTP and SNMP  
Power Supply : 90-260VAC MDS95XE-PS included

**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64****S-Access ETHERLINK\_VI SHDSL.bis DIN Rail Modem****Model: SA-DR-ETHERLINK\_IV-DSL-ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 15,232 Mbps  
 Copper Pairs : 1  
 Modes : Master / Slave / Auto  
 Interface : Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 72 VDC, accepts local and remote power  
 Physical Interfaces : RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management)  
 Management : Console Port, Telnet, HTTP and SNMP via TCU  
 Power Supply : MDS95XE-PS included

**Model: SA-DR-ETHERLINK\_IV-2DSL-ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 30,464 Mbps, 2x15,232 Mbps  
 Copper Pairs : 2  
 Modes : Master / Slave / Auto / Multipair  
 Interface : Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 72 VDC, accepts local and remote power  
 Physical Interfaces : RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management)  
 Management : Console Port, Telnet, HTTP and SNMP via TCU  
 Power Supply : MDS95XE-PS included

**Model: SA-DR-ETHERLINK\_IV-DSL-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 15,232 Mbps  
 Copper Pairs : 1  
 Modes : Master / Slave / Auto  
 Interface : 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 230 VDC, accepts local and remote power  
 Physical Interfaces : RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
 Management : Console Port, Telnet, HTTP and SNMP  
 Power Supply : 90-260VAC MDS95XE-PS included

**Model: SA-DR-ETHERLINK\_IV-2DSL-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 30,464 Mbps, 2x15,232 Mbps  
 Copper Pairs : 2  
 Modes : Master / Slave / Auto / Multipoint / Multipair  
 Interface : 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
 Power : 36 to 230 VDC, accepts local and remote power

**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64****S-Access ETHERLINK\_VI SHDSL.bis DIN Rail Modem****Model: SA-DR-ETHERLINK\_IV-DSL-2E1-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
Data Rate : 128kbps - 15,232 Mbps  
Copper Pairs : 1  
Modes : Master / Slave / Auto  
Interface : 2xE1 (75/120 Ohm), 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
Power : 36 to 230 VDC, accepts local and remote power  
Physical Interfaces : RJ48 (E1), RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
Management : Console Port, Telnet, HTTP and SNMP  
Power Supply : 90-260VAC MDS95XE-PS included

**Model: SA-DR-ETHERLINK\_IV-2DSL-2E1-2ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128/ TC-PAM128  
Data Rate : 128kbps - 30,464 Mbps, 2x15,232 Mbps  
Copper Pairs : 2  
Modes : Master / Slave / Auto / Multipoint / Multipair  
Interface : 2xEthernet 10/100BaseT (Layer 2 Managed Switch)  
Power : 36 to 230 VDC, accepts local and remote power  
Physical Interfaces : RJ48 (E1), RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
Management : Console Port, Telnet, HTTP and SNMP  
Power Supply : 90-260VAC MDS95XE-PS included

**Model: SA-DR-ETHERLINK\_IV-4DSL-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128/ TC-PAM128  
Data Rate : 128kbps - 60,828 Mbps, 4x15,232 Mbps  
Copper Pairs : 4  
Modes : Master / Slave / Auto / Multipoint / Multipair  
Interface : 4xEthernet 10/100BaseT (Layer 2 Managed Switch)  
Power : 36 to 230 VDC, accepts local and remote power  
Physical Interfaces : RJ48 (E1), RJ45 (Ethernet), RJ48 (SHDSL), Molex (POWER), DB9 (Management), USB  
Management : Console Port, Telnet, HTTP and SNMP  
Power Supply : 90-260VAC MDS95XE-PS included

**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64****S-Access Etherlink\_IV SHDSL.bis RackCards for 19" Chassis****Model: SA-RC-ETHERLINK\_IV-2E1-DSL-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 /  
 TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 15,232Mbps  
 Copper Pairs : 1  
 Modes : Master / Slave / Auto  
 Power : 36 to 72 VDC local Power, 120/200VDC remote power source  
 Interface : 2xE1 (75/120Ohm), 4x Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Physical Interfaces : DB15 (E1), RJ45 (Ethernet), RJ48 (SHDSL) DIN4 1612 (Backplane)  
 Management : Telnet, HTTP and SNMP via Console Port via ACU/TCU

**Model: SA-RC-ETHERLINK\_IV-2E1-N64-DSL-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 /  
 TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 15,232Mbps  
 Copper Pairs : 1  
 Modes : Master / Slave / Auto  
 Power : 36 to 72 VDC local Power, 120/200VDC remote power source  
 Interface : 2xE1 (75/120Ohm), 1xN64,  
 4x Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Physical Interfaces : DB15 (E1), DB26 (Nx64), RJ45 (Ethernet), RJ48 (SHDSL)  
 DIN4 1612 (Backplane)  
 Management : Telnet, HTTP and SNMP via Console Port via ACU/TCU

**Model: SA-RC-ETHERLINK\_IV-4E1-2DSL-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 /  
 TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 30,464Mbps, 2 x 15,232Mbps  
 Copper Pairs : 2  
 Modes : Master / Slave / Auto  
 Power : 36 to 72 VDC local Power, 120/200VDC remote power source  
 Interface : 4xE1 (75/120Ohm), 4x Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Physical Interfaces : DB15 (E1), RJ45 (Ethernet), RJ48 (SHDSL) DIN4 1612 (Backplane)  
 Management : Telnet, HTTP and SNMP via Console Port via ACU/TCU

**Model: SA-RC-ETHERLINK\_IV-2E1-N64-2DSL-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
 Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 / TC-PAM64 / TC-PAM128  
 Data Rate : 128kbps - 30,464Mbps, 2 x 15,232Mbps  
 Copper Pairs : 2  
 Modes : Master / Slave / Auto  
 Power : 36 to 72 VDC local Power, 120/200VDC remote power source  
 Interface : 2xE1 (75/120Ohm), 1xN64, 4x Ethernet 10/100BaseT (Layer 2 Managed Switch)  
 Physical Interfaces : DB15 (E1), DB26 (Nx64), RJ45 (Ethernet), RJ48 (SHDSL) DIN4 1612 (Backplane)  
 Management : Telnet, HTTP and SNMP via Console Port via ACU/TCU

**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64****S-Access Etherlink\_IV SHDSL.bis RackCards for 19" Chassis****Model: SA-RC-ETHERLINK\_IV-4DSL-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 /  
TC-PAM64 / TC-PAM128

Data Rate : 128kbps - 60.928Mbps, 4x15,232Mbps  
Copper Pairs : 4

Modes : Master / Slave / Auto  
Power : 36 to 72 VDC localPower  
Interface : 4x Ethernet 10/100BaseT (Layer 2 Managed Switch)  
Physical Interfaces : RJ45 (Ethernet), RJ48 (SHDSL) DIN4 1612 (Backplane)  
Management : Telnet, HTTP and SNMP via Console Port via ACU/TCU

**Model: SA-RC-ETHERLINK\_IV-4DSL-4E1-4ETH**

DSL Version : SHDSL / G.SHDSL.bis / Extended  
Modulation : TC-PAM4 / TC-PAM8 / TC-PAM16 / TC-PAM32 /  
TC-PAM64 / TC-PAM128

Data Rate : 128kbps - 60.928Mbps, 4x15,232Mbps  
Copper Pairs : 4

Modes : Master / Slave / Auto  
Power : 36 to 72 VDC localPower, 120/200VDC remote power source  
Interface : 4xE1 (120 Ohm), 4x Ethernet 10/100BaseT (Layer 2 Managed Switch)  
Physical Interfaces : DB15(E1), RJ45 (Ethernet), RJ48 (SHDSL) DIN4 1612 (Backplane)  
Management : Telnet, HTTP and SNMP via Console Port via ACU/TCU

**SHDSL.bis****Up to 60Mbps****E1 / Ethernet / Nx64**

## Chassis for 19" Rack Cards

**Model: SA-MR-ACDC-48V**

Dimensions : 19"/1U, 439x258x43mm (WxHxD), 3.1kg  
Number of Slots : 1  
Power : 48VDC and/or 220VAC  
Remark : 48VDC and voice connectors on the back side

**Model: SA-DESK-TOP\_1-48V**

Dimensions : 19"/1U, 260x258x43mm (WxHxD), 2.1kg  
Number of Slots : 1  
Power : 48VDC and/or 220VAC  
Remark : 48VDC and Monitor connectors on the back site

## DIN-RAIL for Desktop Units

**Model: SA-DT-MK-DIN**

Description : DIN Rail Mounting Kit for Desktop Units

## Powersupply for SA-DT-XXX and SA-TT-XXX

**Model: SA-PSS-48\_EURO**Description : Spare Power Supply for TELCOLINKI (Desktop)  
(220VAC/48VDC)**Model: SA-PSS-48\_Inlet. Fig. 8**Description : Spare Power Supply for Etherlink II (Desktop) (100-  
240VAC/48VDC/300mA), Inlet:Fig.8

SHDSL.bis

Up to 60Mbps

E1 / Ethernet / Nx64

## S-Access Etherlink\_IV DT SHDSL Overview



Functionality

### Etherlink IV - DeskTop-Models

	Standalone	Rail Mounting	Subrack Module	Protected Housing	Single Pair	Dual Pair Bonding	Triple Pair Bonding	Quadruple Pairing	Point-to-Point	Point-to-Multipoint	E1 (120Ohm)	E1 (75Ohm) opt	Ethernet Bridge	Ethernet Add/Drop	Nx64kbps	E1 Cross Connection	Remote Power Feeding	Remote Power Switching	Console Port Management	Telnet Management	Web Management	SNMP Management	Local Power 18-30V	Local Power 36-48V
SA-DT-Etherlink_IV-2E1-DSL-2ETH	✓				✓				✓		✓	✓	✓		✓	*1	✓		✓	✓	✓	✓		✓
SA-DT-Etherlink_IV-2E1-DSL-2ETH-24V	✓				✓				✓		✓	✓	✓		✓	*1	✓		✓	✓	✓	✓	✓	
SA-DT-Etherlink_IV-2E1-2DSL-2ETH	✓				✓	✓			✓	✓	✓	✓	✓	✓	✓	*1	✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2E1-2DSL-2ETH-24V	✓				✓	✓			✓	✓	✓	✓	✓	✓	✓	*1	✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-DSL-2ETH	✓				✓				✓				✓				✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-DSL-2ETH-24V	✓				✓				✓				✓				✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2DSL-2ETH	✓				✓	✓			✓	✓			✓	✓			✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2DSL-2ETH-24V	✓				✓	✓			✓	✓			✓	✓			✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-4DSL-4ETH	✓				✓	✓	✓	✓	✓	✓			✓	✓			✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-4DSL-4ETH-24V	✓				✓	✓	✓	✓	✓	✓			✓	✓			✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2E1-DSL-NX64-2ETH	✓				✓				✓		✓	✓			✓	*1	✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2E1-DSL-NX64-2ETH-24V	✓				✓				✓		✓	✓			✓	*1	✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2E1-2DSL-NX64-2ETH	✓				✓	✓			✓	✓	✓	✓			✓	*1	✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2E1-2DSL-NX64-2ETH-24V	✓				✓	✓			✓	✓	✓	✓			✓	*1	✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-DSL-NX64-2ETH	✓				✓				✓				✓		✓		✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-DSL-NX64-2ETH-24V	✓				✓				✓				✓		✓		✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2DSL-NX64-2ETH	✓				✓	✓			✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
SA-DT-Etherlink_IV-2DSL-NX64-2ETH-24V	✓				✓	✓			✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	✓	✓

\*1 Will be available in Q2 2012

SHDSL.bis

Up to 60Mbps

E1 / Ethernet / Nx64

## S-Access Etherlink\_IV DR SHDSL Overview



Functionality

	Standalone	Rail Mounting	Subrack Module Housing	Protected Housing	Single Pair	Dual Pair Bonding	Triple Pair Bonding	Quadruple Pairing	Point-to-Point	Point-to-Multipoint	E1 (120Ohm)	E1 (75Ohm) opt	Ethernet Bridge	Ethernet Add/Drop	Nx64kbps	E1 Cross Connection	Remote Power Feeding	Remote Power Sensing	Console Port Management	Telnet Management	Web Management	SNMP Management	Local Power Backup
<b>Etherlink IV - DeskTop-Models</b>																							
SA-DR-Etherlink_IV-2E1-DSL-2ETH		✓			✓				✓		✓	✓	✓			*1	✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-2E1-DSL-2ETH-24V		✓			✓				✓		✓	✓	✓			*1	✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-2E1-2DSL-2ETH		✓			✓	✓			✓	✓	✓	✓	✓	✓		*1	✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-2E1-2DSL-2ETH-24V		✓			✓	✓			✓	✓	✓	✓	✓	✓		*1	✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-DSL-2ETH		✓			✓				✓				✓				✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-DSL-2ETH-24V		✓			✓				✓				✓				✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-2DSL-2ETH		✓			✓	✓			✓	✓			✓	✓			✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-2DSL-2ETH-24V		✓			✓	✓			✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-4DSL-4ETH		✓			✓	✓	✓	✓	✓	✓			✓	✓			✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-4DSL-4ETH-24V		✓			✓	✓	✓	✓	✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-2E1-DSL-NX64-2ETH		✓			✓				✓		✓	✓			✓	*1	✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-2E1-DSL-NX64-2ETH-24V		✓			✓				✓		✓	✓			✓	*1	✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-2E1-2DSL-NX64-2ETH		✓			✓	✓			✓	✓	✓	✓			✓	*1	✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-2E1-2DSL-NX64-2ETH-24V		✓			✓	✓			✓	✓	✓	✓			✓	*1	✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-DSL-NX64-2ETH		✓			✓				✓				✓		✓		✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-DSL-NX64-2ETH-24V		✓			✓				✓				✓		✓		✓		✓	✓	✓	✓	✓
SA-DR-Etherlink_IV-2DSL-NX64-2ETH		✓			✓	✓			✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	
SA-DR-Etherlink_IV-2DSL-NX64-2ETH-24V		✓			✓	✓			✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	✓

SHDSL.bis

Up to 60Mbps

E1 / Ethernet / Nx64

## S-Access Etherlink\_IV RC SHDSL Overview

 Functionality	Standalone	Rail Mounting	Subrack Module	Protected Housing	Single Pair	Dual Pair Bonding	Triple Pair Bonding	Quadruple Pair Bonding	Point-to-Point	Point-to-Multipoint	E1 (120Ohm)	E1 (75Ohm) optional	Ethernet Bridge	Ethernet Add/Drop	Nx64kbps Interface	E1 Cross Connect	Remote Power Receiver	Remote Power Source	Console Port Management	Telnet Management	Web Management	SNMP Management
	Etherlink IV - RackCard -Models																					
SA-RC-Etherlink_IV-2E1-DSL-4ETH	*1		√		√				√		√	√	√			*2		√	√	√	√	√
SA-RC-Etherlink_IV-2E1-Nx64-DSL-4ETH	*1		√		√				√		√	√	√		*2	*2		√	√	√	√	√
SA-RC-Etherlink_IV-2DSL-4E1-4ETH	*1		√		√	√			√	√	√	√	√	√		*2		√	√	√	√	√
SA-RC-Etherlink_IV-2DSL-2E1-nx64-4ETH	*1		√		√	√			√	√	√	√	√	√	*2	*2		√	√	√	√	√
SA-RC-Etherlink_IV-4DSL-4E1-4ETH	*1		√		√	√	√	√	√	√	√	√	√	√		*2		√	√	√	√	√
SA-RC-Etherlink_IV-4DSL-4ETH	*1		√		√	√	√	√	√	√			√	√					√	√	√	√

\*1 Yes, if you use UTT1