



FlexDSL is a manufacturer of state of the art telecommunication equipment who specialise in wire-line transmission technologies and customized transmission solutions. FlexDSL products provide data communications links for metro systems, light railway systems, motorways, electric power distribution, utilities, oil & gas, railways, airports and large industrial plants. The products are designed to meet the standards required for use in industrial environments. The EN50121-4 certified products are suitable for railway applications and guarantee electromagnetic compatibility in the rail environment. FlexDSL supports communication applications for voice, data, audio, video, etc. Ethernet TCP/IP and serial data transmission options are available for control and signalling systems.



FlexDSL Orion3

2/4- and 8-wire SHDSL.bis with E1, Nx64 and Ethernet Interfaces.
Transmission speeds up to 15Mbps per copper pair.

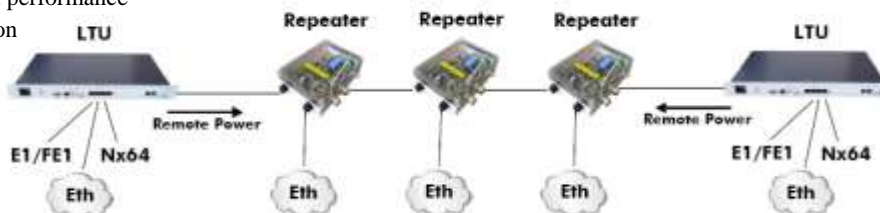
- Certified to EN50121-4 standards for Railway application requirements
- SHDSL.bis based on TC-PAM4/8/16/32/64/128 for single and multiple pair operation
- Up to 15.2Mbps over single and up to 60.8Mbps over quadruple pair copper
- Multiservice E1 (G.703/704) and Nx64 (V.35/36, X.21) Ethernet Interfaces
- Daughterboard's: RS-232/485/422, In-/Output, Real Time Clock, Memory for Log, Bluetooth
- 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
- Tabletop, subrack, and mini-rack form factors
- Extended temperature range
- High quality and high performance



FlexDSL Orion Repeaters

2- and 4-wire SHDSL.bis Repeater/Regenerator (TDM/ATM) with Ethernet Interface.
Transmission up to 15Mbps per copper pair.

- SHDSL.bis Repeater based on TC-PAM4/8/16/32/64/128
- Add-drop Ethernet interface (10/100BaseT)
- Support TDM and ATM
- Single pair, dual pair or double single pair mode
- Locally or remotely powered
- Very low power consumption
- Power through feature
- Fully manageable via DSL link, Console, Telnet and SNMP
- Environmentally protected IP-67/68 or DIN-rail and plastic housing available
- Optional external alarms management
- Extended temperature range
- High quality and high performance
- OEM adaptation option





About FlexDSL

FlexDSL was one of the first companies in the world, to introduce the newest SHDSL technologies in its transmission products. Thus, we believe that our SHDSL systems meet the highest expectations in regards to distance, reliability and flexibility. Our strong focus and our state of the art technologies allowed us to quickly gain leadership positions in our markets.

Our solutions are widely used by Utility companies, such as railways, electricity, oil and gas, Incumbent Local Exchange Carriers (ILEC), Competitive Local Exchange Carriers (CLEC), Internet Service Providers (ISP) in more than 35 countries world-wide.

The expression "Made in Switzerland" means for us not just to manufacture in Switzerland but to strive for high quality, reliable and intelligently designed products that exceed the customer's expectations. With a team of around 50 fully-fledged engineers we guarantee an excellent customer and application focused support.

FlexDSL's Industrial Orion's

2/4- and 8-wire SHDSL.bis for harsh environment
Transmission up to 15Mbps per copper pair.

- SHDSL.bis based on TC-PAM4/8/16/32/64/128 for single and multiple pair operation
- Multiservice E1, Ethernet and Nx64 (V.35, V.36, X.21, RS-232) Interfaces
- 4 Pair Bonding Support for up to 45Mbps, 2 Pair Bonding Support for up to 30Mbps
- Console, Telnet, and SNMP management
- Components have industrial temperature range (-40°C to +85°C)
- Components are never run on their specification limits
- Best performance and low power, long life, high quality design
- Better isolated and protected interfaces than standards ask for
- Stable and high quality mechanics from Germany, DIN-Rail and mini-rack form factors
- Power input range: 18-36VDC or 36-72VDC or remote power
- Extremely long availability from FlexDSL Telecommunications AG



Other Applications



Geothermal Energy Plant



Electric Power Distribution



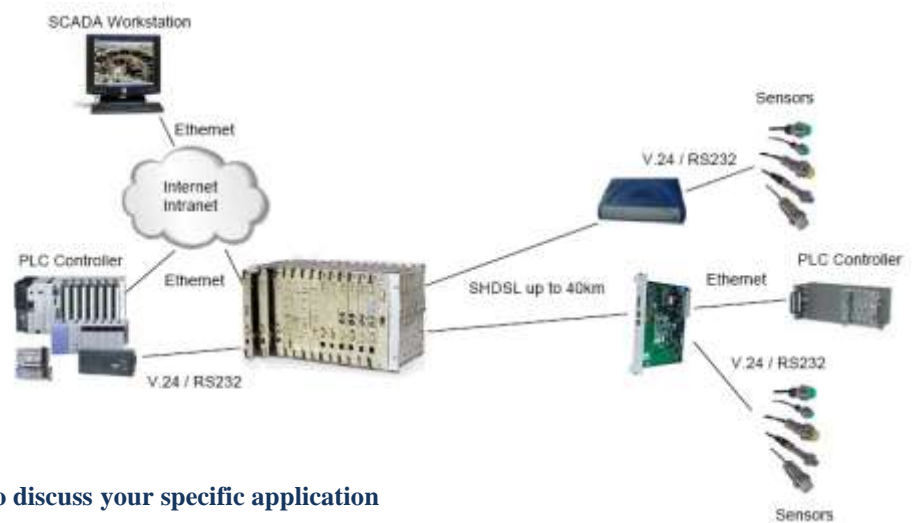
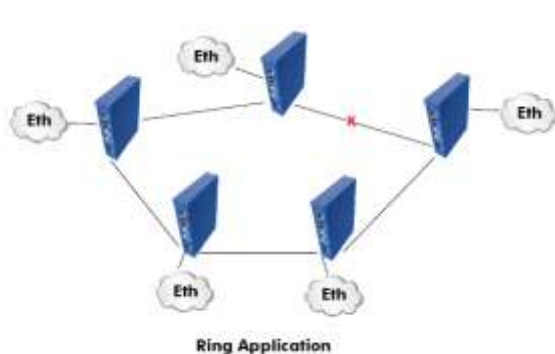
Traffic Management Systems



Pipelines



Wind Farms



For more information about FlexDSL products or to discuss your specific application
Please contact Saratota Ltd Tel 0845 500 1451

