XSLAN ETHERNET EXTENDER

XSLAN / XELAN



The family of SHDSL (XSLAN) and SPE (XELAN) switches enables the connection of remote Ethernet networks using a simple copper pair in order to reach data rate up

UP TO 13KM

A large range of Ethernet extenders is offered:
Point-to-point, multipoint up to 12 lines concentrator.

to 15Mbps.

Switch SHDSL / SPE

- From 1 to 12 WAN ports
- From 1 to 6 Ethernet ports
- Technology: SHDSL or SPE
- Up to 13 km
- Up to 15 Mb/s
- IP Router
- SNMP, QoS Diffserv, VLAN
- Bypass feature
- Failsafe ring (RSTP or proprietary protocol)
- Auto-negotiation
- Railway compatible
- AES256 encryption (MACSec)
- Authentication 802.1X



DOC_MPR_XSLAN_Data sheet_D (latest update 06/30/2023)



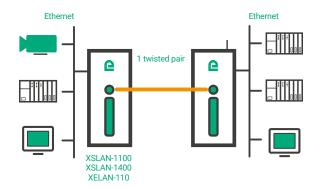
Since 1985, Etic Telecom designs and markets products and solutions to interconnect machines and industrial systems.

We are present in the market for water, energy, transportation, urban infrastructure and industry 4.0.

XSLAN / XELAN

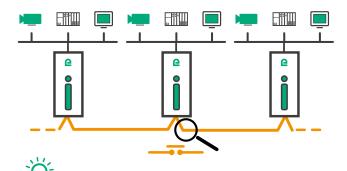
A "PLUG AND PLAY" MODEL

Activation of a point to point connection (XSLAN-1100 or XELAN-110) or web page (XSLAN-1400).



DAISY CHAIN NETWORK

The XSLAN-2400 or XELAN-210 can be used to build a daisy chain topology via a copper pair.

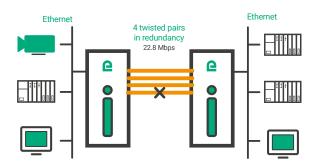


"The Bypass"

The "By-Pass" feature is used to close the line (electro-mechanical relay) when the XSLAN or XELAN is switched off. The daisy chain is thus not cut.

SHDSL LINE AGGREGATION TO INCREASE DATA RATE AND SECURITY

XSLAN-2xxx and XSLAN-4200 can aggregate SHDSL lines to increase the data rate or to offer a line backup.



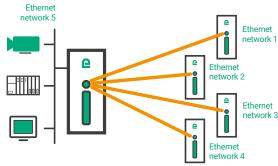


XELAN's strenghts

- Low consumption
 - Low consumption
- Quick connexion• Economically optimized

Plug & Play

SHDSL LINE CONCENTRATOR



Models: XELAN 210, XSLAN-2400, XSLAN-4200 and XSRACK-1260.

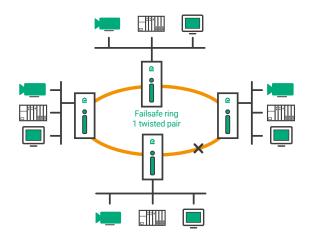


Auto-negociation

This configuration mode can be used to quickly plug the XSLAN or XELAN without configuration.

FAILSAFE RING

XSLAN is working with RSTP or Etic Telecom protocol in order to build any type of topology with redundancy.





Loop VPN for secured ring (XSLAN only)

When the SHDSL network forms a daisy chain and when it is not possible to form a secured ring, the "loop VPN" function allows a network redundancy if an Internet or a private (MPLS) connection is available at each end of the SHDSL network.

XSLAN / XELAN

SELECTION GUIDE





















THE WAY	8	70	3	- A		4 15		- tun- 2 tun- 2 tun-
XELAN 110	XELAN 210	XSLAN 1100	XSLAN 1400	XSLAN 1220	XSLAN 2400	XSLAN 2220	XSLAN 4200	XSRACK-1260
No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SPE	SPE	SHDSL	SHDSL	SHDSL	SHDSL	SHDSL	SHDSL	SHDSL
1	2	1	1	1	2	2	4	12
1	1	1	4	2	4	2	2	6
				~		~		
10 Mbps	10 Mbps	CF page 4	CF page 4	CF page 4	CF page 4	CF page 4	CF page 4	CF page 4
			~	~	~	~	~	~
~	~	~						
	~				~	~	~	
			~	~	~	~	~	~
<0,2 ms	<0,2 ms	2 ms	2 ms	2 ms	2 ms	2 ms	2 ms	2 ms
Auto/DP	Auto/DP	Auto/SW	SW	SW	SW	SW	SW	SW
LED	LED	LED/SW	LED/SW	LED/SW	LED/SW	LED/SW	LED/SW	LED/SW
		~	~	~	~	~	~	~
			~	~	~	~	~	
	XELAN 110 No SPE 1 1 10 Mbps <0,2 ms Auto/DP	XELAN 110XELAN 210NoNoSPESPE121110 Mbps10 MbpsIn In I	XELAN 110 XELAN 210 XSLAN 1100 No No Yes SPE SPE SHDSL 1 2 1 1 1 1 10 Mbps CF page 4 Image: Company of the page 4 company of	XELAN 110 XELAN 210 XSLAN 1400 No No Yes Yes SPE SPE SHDSL SHDSL 1 2 1 1 1 1 1 4 10 Mbps CF page 4 CF page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4 Image: A page 4	XELAN 1100 XELAN 210 XSLAN 1100 XSLAN 1400 XSLAN 1220 No No Yes Yes Yes SPE SPE SHDSL SHDSL SHDSL 1 2 1 1 1 1 1 1 4 2 10 Mbps CF page 4 CF page 4 CF page 4 CF page 4 V V V V V V V V V V 2 ms 2 ms 2 ms Auto/DP Auto/DP Auto/SW SW SW LED LED/SW LED/SW LED/SW LED/SW	XELAN 1100 XSLAN 2100 XSLAN 11000 XSLAN 1220 XSLAN 2400 No No Yes Yes Yes Yes SPE SPE SHDSL SHDSL SHDSL SHDSL 1 2 1 1 1 2 4 1 1 1 4 2 4 4 2 4 10 Mbps CF page 4 CF page 4 <th>XELAN 1100 XSLAN 1100 XSLAN 1220 XSLAN 2400 XSLAN 2220 No No Yes Yes Yes Yes Yes SPE SPE SHDSL SHDSL SHDSL SHDSL SHDSL SHDSL 1 2 1 1 1 2 2 1 1 1 4 2 4 2 10 Mbps CF page 4 V V V V V V V V V V V V V V V V V V V V V V V<!--</th--><th>XELAN 1100 XSLAN 1100 XSLAN 1200 XSLAN 2200 XSLAN 2220 XSLAN 2</th></th>	XELAN 1100 XSLAN 1100 XSLAN 1220 XSLAN 2400 XSLAN 2220 No No Yes Yes Yes Yes Yes SPE SPE SHDSL SHDSL SHDSL SHDSL SHDSL SHDSL 1 2 1 1 1 2 2 1 1 1 4 2 4 2 10 Mbps CF page 4 V V V V V V V V V V V V V V V V V V V V V V V </th <th>XELAN 1100 XSLAN 1100 XSLAN 1200 XSLAN 2200 XSLAN 2220 XSLAN 2</th>	XELAN 1100 XSLAN 1100 XSLAN 1200 XSLAN 2200 XSLAN 2220 XSLAN 2

XSLAN / XELAN

TECHNICAL CHARACTERISTICS

	G	NERAL CH	IARACTERIS	TICS			
Dimensions	• XSLAN-1100, XELAN-110 and XELAN-210 : 120x37x- 88mm (h,l,d) • XSRACK : 44x435x290 mm (h,l,d)						
Weight	• Others products: 137x51x142 mm (h,l,d) • XELAN and XSLAN-1100: 500g • XSRACK: 3500g • Other products: 750g						
Power	XELAN-110, XELAN-210, XSLAN-1100 : 10-30 VDC (nominal : 12-24 VDC) Others XSLAN : 10-60 VDC (nominal : 12-48 VDC) Phænix type 2-point connector (removable) Isolation : 1500 V						
Consumption	• XSLAN-1100 : <2 W • XSLAN-1XXX : 3 W • XSLAN-2XXX : 4 W • XSLAN-4XXX : 6 W • XELAN-110 : 0,5 W • XELAN-210 : 0,7 W • XSRACK : 27 W						
Temperature	• XSRACK: 0°C / + 50°C • Other products: -40°C / + 70°C (Humidity 5 to 95 %)						
EMC	Immunity (EN 61000-6-2) • EN61000-4-2 : Electrostatic discharge (ESD) • EN61000-4-3 : RF radiated • EN61000-4-4 : EFT/Burst						
	• EN61000-4-5 : Surge • EN61000-4-6 : RF Conducted Emission (EN 61000-6-4) • EN55032 : Radiated and conducted emission						
Electrical Safety	IEC/EN 62368-1						
Hazardous substances	• Directive 2011/65UE (RoHS) • REACH						
Casing	Metallic case with RailDIN or RACK fixation • XELAN and XSLAN-1100: IP31 • Other products: IP21						
		SHDSL TF	RANSMISSIO	N			
Cable			elded and is recomm		oetween		
Connector	Phœnix type 2-point connector (removable)						
Isolation	1500 V						
			DATA RATE II ues withou			_	
Data rate	192 Kb/s	2,3 Mb/s	5,7 Mb/s	10 Mb/s	12 Mb/s	15 Mb/s	
Distance (Ø 0.9 mm)	13 Km	6 Km	3,7 Km	1,5 Km	1 Km	0,7 Km f	
Distance (Ø 0.4 mm)	7 Km	3 Km	3,7 Km	0,9 Km	0,6 Km	0,4 Km	
			DATA RATE ues withou				
Data rate	10 Mbit/	's full dup	lex up to 2	km			

	ETHERNET FEATURES (LEVEL 2)				
Ethernet	• RJ45 • Auto : 10/100 full & half MDI/MDI-X				
SHDSL Ethernet	802.3ah: 2BaseTL				
SPE Ethernet	10 Base T1L				
Switch	Store and forward				
VLAN	VLAN via port IEEE 802.IQ (XSLAN only)				
MAC Filtering	Destination MAC adress filtering (XSLAN only)				
Redundant network	RSTP Protocol and Failsafe Ring (XSLAN only)				
	IP FEATURES (LEVEL 3 / XSLAN ONLY)				
IP Address	IPV4 and IPV6				
SNMP	SNMP V3 RFC1213 MIB II HDSL2-SHDSL-LINE-MIB HOST-RESOURCES-MIB IF-MIB IP-MIB BRIDGE-MIB				
QoS	DiffServ - 5 priority levels management depending on traffic				
IP Router	• IP routing between LAN interface and SHDSL interface • 25 static routes • RIP V1 and V2 • Address translation				
	SERIAL GATEWAY				
Connectors	RS232: RJ45 RS485: removable 2-point connector				
Data rate	1200 to 115 200 b/s				
Gateway	Raw TCP client & server UDP (unicast or towards broadcast list) Multicast, Telnet Modbus Master & Slave, Unitelway Slave				
	SYSTEM AND CONFIGURATION (XSLAN ONLY)				
XSLAN Configuration	Web server (configuration and diagnostic)				
Backup	Configuration file backup Editable text file				
Date and hour	NTP client and server				
Upgrade firmware	Locally or via the SHDSL link				
Diagnostic	LOG, Syslog, line quality monitoring				



& distance





