

SAFE CONNECTIONS OF INDUSTRIAL DEVICES OVER IP NETWORKS



The IPL-E router enables automated devices to be interconnected securely on a IP network, whether it be a local, factory or company network, an Intranet, extranet or Internet. Thanks to an IP-E router-firewall, only authorised, authenticated connections can be established.

☛ IPL_E is a secure router: it establishes VPN tunnels with other authenticated routers using certificates or shared keys. It transfers encrypted data to ensure confidentiality.

☛ IPL_E is also a remote access server, designed for e.g. remote maintenance.

☛ And finally IPL_E is also a firewall which can filter IP frames according to the source and destination IP addresses and port numbers.

Installation is carried out via an html navigator.

That functions in the same product make the IPL-E a top level security solution to connect safely industrial devices to an IP network.

Key features

- VPN tunnels TSL / IPSec / PPTP
- SPI Firewall (stateful packet inspection)
- Remote access server (RAS)
- 1 «safe link» 10/100 BT VPN port
- 4 X 10/100 BT ports switch
- RS232 - RS485 - USB options
- Html configuration
- Operating T° -20°C / +60°C

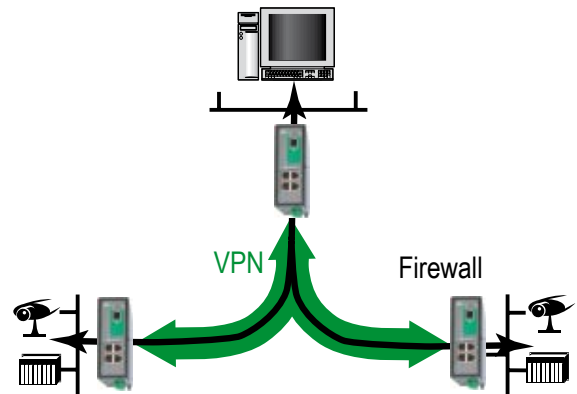
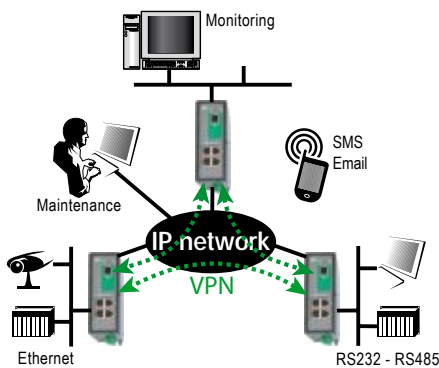
Applications

Connection of industrial devices through IP company networks or Internet



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IPL-E Router-firewall



General characteristics

Dimensions (HxWxD)	135 x 47 x 115 mm
Installation	DIN rail 35 mm
Protection class	IP20
Power	<ul style="list-style-type: none"> 9 to 30 VDC / 200 mA Reverse polarity protection
EMC immunity	<ul style="list-style-type: none"> ESD : EN61000-4-2 : 6 KV contact discharge RF field : EN61000-4-3 : 10V/m < 2 GHz Fast transient : EN61000-4-4 Surge V. : EN61000-4-5 : 4KV line / earth
Safety	EN 60950 & UL1950
Banned substances	2002/95/CE ROHS european union directive
Humidity	5 to 95 % RH non condensing
Operating T°	-20°C/+60°C 95%

IP Router/ IP@ / RAS function /management / Ethernet

IP router	<ul style="list-style-type: none"> Connections description RIP V2 or OSPF Static routes Destination IP address translation
IP @	<ul style="list-style-type: none"> WAN : DHCP client or fixed IP @ LAN : DHCP client ou server or fixed IP @
DNS	<ul style="list-style-type: none"> WAN : DYN DNS LAN : DNS relay & DNS server
RAS	<ul style="list-style-type: none"> 25 users list with Login + PWD PPTP or L2TP / IPsec or TLS M2Me_Secure & M2Me_Connect compatible
Management	SNMP V2 standard MIB
Configuration	Html server & DIP switches
Ethernet	10/100 - Full/half - MDI/MDI-X auto sensing

Remote access server (RAS)

Users	<ul style="list-style-type: none"> 25 users list Login + Password
VPN	<ul style="list-style-type: none"> PPTP - L2TP/IPSEC - TLS (OPEN VPN)
M2Me	<ul style="list-style-type: none"> M2Me_Secure VPN software compatible M2Me_Connect service compatible

Digital input / output

Output	<ul style="list-style-type: none"> 1 isolated output 0,5 A / 24 VDC max Operating alarm
Input	<ul style="list-style-type: none"> 1 input Programmable action : Connection or email

Security

VPN	<ul style="list-style-type: none"> IPSEC or TLS
Tunnels	<ul style="list-style-type: none"> Preshared key / X509 Certificates Encryption : 3DES & AES 128-192-256 16 VPN tunnels
Firewall	<ul style="list-style-type: none"> 50 rules / Stateful packet inspection Source and destination IP@ and port Nr filtering Deny of service
Logs	<ul style="list-style-type: none"> Date and time stamp Events : Connection, restart, alarm

RS232-RS485 gateway (option)

RS232-RS485	<ul style="list-style-type: none"> Raw client & server- Multicast - Telnet - Modbus master & slave 2 serial ports (see ordering infos) 1200 to 115 200 b/s 8 bits parity N/O/E
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Ordering info.	IPL-E	-1400B	-1220B	-1230B
Ethernet safe link	1	1	1	
Ethernet 10-100 BT	4	2	2	
RS232 (RJ45)	0	1	2	
RS485 (Screw block)	0	1	0	

13, Chemin du Vieux Chêne
38240 Meylan France
Tél : 33 4 76 04 20 00
Fax : 33 4 76 04 20 01

www.etictelcom.com

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IPL-E data-sheet index 02