

ADSL router-firewall IPL-AD2

**HIGH SECURITY
HIGH ENDURANCE
FOR THE INTERNET**



The ADSL IPL-AD2 router allows industrial devices to be inter-connected via the Internet, with a guaranteed high level of security and endurance.

It incorporates the safety functions which are essential to critical applications: VPN and firewall.

The VPN tunnel authenticates all other remote routers to protect against intrusion. It also encrypts data to ensure confidentiality and interconnect machines from each local network transparently.

The firewall allocates restricted rights adapted to each authorised machine.

The IPL-AD2 router is designed for demanding applications: Wide temperature ranges, protection against overvoltage on the line, dated event logging, router redundancy management (VRRP) and connection redundancy bear the evidence.

Depending on the model, there are 4 10-100 BT Ethernet ports or 2 Ethernet ports and 2 serial ports or 1 USB port (host and device).

Installation is carried out via an html navigator.

Key features

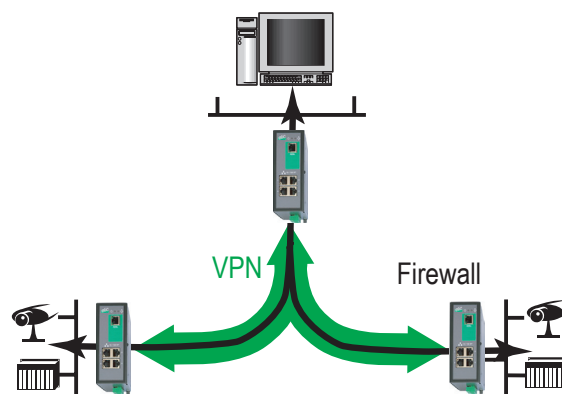
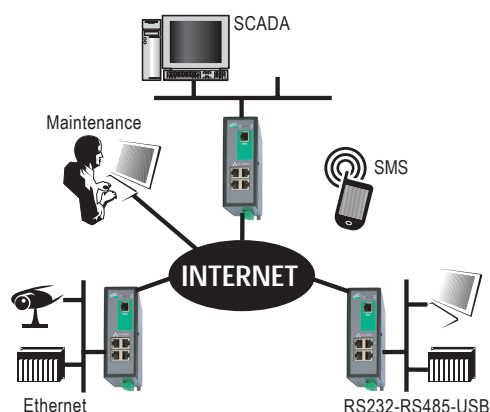
- ADSL 2+ & Re-ADSL
- VPN IPSEC - TLS - L2TP/IPSec - PPTP
- Firewall (stateful packet inspection)
- Redundancy (VRRP)
- PSTN / ISDN / GSM back-up (option)
- 4 ethernet ports
- RS232-RS485-USB gateway (options)
- Html configuration and trouble-shooting
- -20°C / +60°C operating T°
- Lightning protection (EN61000-4-5)

Applications

- Remote control systems



IPL-AD2 ADSL 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 40 VDC / 200 mA Reverse polarity protection |
| Output | Relay 1 A @ 24VDC max. |
| 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 |
| Humidity | 5 to 95 % RH non condensing |
| Operating T° | -20°C/+60°C 95% |

ADSL2+ transmission

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|----------------------------|---|
| Cable | 1 telephone-grade twisted pair |
| ADSL modulation | ITU G.992.5 (ADSL2+ & Re-ADSL) |
| Provider connection | <ul style="list-style-type: none"> PPPoEthernet or PPPoATM EoA : Ethernet over ATM RFC2684 Bridged IPoA : Routed IP over ATM, RFC2684 Routed |
| Data rate | <ul style="list-style-type: none"> Download 24 Mbit/s (From Internet) Upload 1 Mbit/s (To Internet) |

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

| | |
|----------------------|--|
| IP router | <ul style="list-style-type: none"> Static routes RIP V2 or OSPF |
| DNAT | 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 |

RS232-RS485 gateway (option)

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|--------------------|--|
| 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 |
|--------------------|--|

Security functions

| | |
|---------------------|--|
| VPN | <ul style="list-style-type: none"> IPSEC, TLS-SSL, L2TP / IPSEC Preshared key / X509 Certificates Encryption : 3DES & AES 128-192-256 Authentication : MD5 & SHA-1 16 VPN tunnels |
| Firewall | <ul style="list-style-type: none"> Stateful packet inspection Source and destination IP@ & ports filters 50 rules |
| Log | <ul style="list-style-type: none"> Date and time stamp Events : Connection, restart, alarm |
| Alarm input | 1 input : Email - SNMP message |
| Alarm output | 1 output : Power - port break - ADSL failure |

Backup & redundancy (Option)

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|-------------------|---|
| Redundancy | VRRP RFC3768 |
| Backup | External «AT» PSTN, ISDN, GSM, GPRS modem |



| Ordering info. | IPL-AD2-1400 | -1220 | -1230 | -1201 |
|---------------------------------|--------------|-------|-------|-------|
| Ethernet 10-100 (RJ45) | 4 | 2 | 2 | 2 |
| RS232 (RJ45) | 0 | 1 | 2 | 0 |
| RS485 (RTB *) | 0 | 1 | 0 | 0 |
| USB (device-host) | 0 | 0 | 0 | 1 |
| 1 input +1 output (RTB*) | 1 | 1 | 1 | 1 |

* RTB = removable terminal block

| Ordering info. | IPL-AD2 | -1220B | -1230B | -1201B |
|--|---------|--------|--------|--------|
| Router with backup and redundancy | 1 | 1 | 1 | 1 |

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