

# Remote access IP router **IPL**

## **PSTN, ISDN, GSM, OR PERMANENT LINES, FOR IP REMOTE CONTROL SYSTEMS**



The IPL router enables remote industrial IP networks to be connected via the telephone network, the ISDN network or by GSM or by permanent link.

Depending on the version, it possesses either a V90 modem, an ISDN S0 interface or a GSM modem. One model is made for connecting an external modem.

To ensure security, the IPL router authenticates the remote calling router (caller Id and PAP-CHAP protocol) and includes a statefull packet inspection firewall to limit the authorized field of IP addresses.

### **Characteristics**

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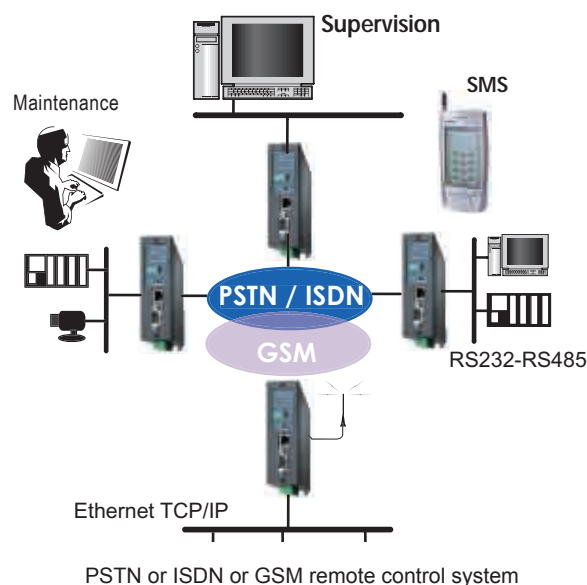
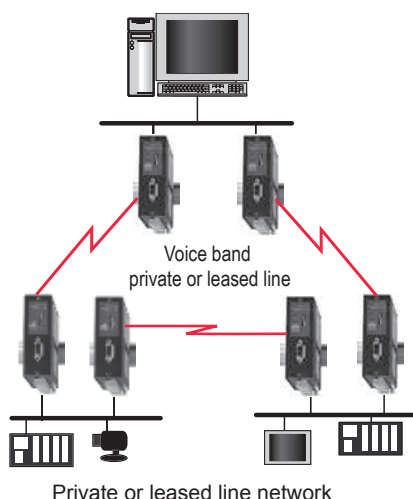
- PSTN or ISDN or GSM models
- 2 wires private or leased line model
- Static routes
- RIP protocol
- Caller ID and PAP-CHAP protocol
- Statefull packet inspection firewall
- 1 serial port for an external modem or serial gateway
- Raw, telnet, multicast, modbus serial gateway
- Easy html configuration
- Serial to IP gateway

### **Applications**

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Electrical utility, water distribution, transport...

# IPL Remote access IP router



## General characteristics

<b>Dimensions</b>	130 x 38 x 110 mm (HxWxD)
<b>Installation</b>	DIN rail 35 mm
<b>Protection class</b>	IP20
<b>Power</b>	<ul style="list-style-type: none"> <li>■ IPL-G134 : 9 to 30 VDC - 7 W</li> <li>■ Other models : 9 to 40 VDC - 5 W</li> <li>■ Reverse polarity protection</li> </ul>
<b>EMC immunity</b>	<ul style="list-style-type: none"> <li>■ ESD : EN61000-4-2 : 6 kV discharge</li> <li>■ RF field : EN61000-4-3 : 10V/m &lt; 2 GHz</li> <li>■ Fast transient : EN61000-4-4</li> <li>■ Surge V. : EN61000-4-5 : 4kV line / earth</li> </ul>
<b>Safety</b>	EN 60950 & UL1950
<b>Banned substances</b>	2002/95/CE ROHS european union directive
<b>Humidity</b>	5 to 95 % RH non condensing
<b>Operating T°</b>	-20°C/+60°C 95%

## Transmission network

<b>PSTN (IPL-M156)</b>	■ V90 (56 kb/s)
<b>Permanent line</b>	<ul style="list-style-type: none"> <li>■ V34 ITU (33,6 Kb/s)</li> <li>■ 2 wires line</li> </ul>
<b>RNIS (IPL-I1128)</b>	■ BRI EURO-ISDN / 1X64 kb/s B
<b>GSM (IPL-G134)</b>	<ul style="list-style-type: none"> <li>■ 900 - 1800 - 1900 MHz</li> <li>■ GSM data 9600 b/s</li> </ul>
<b>RS232 - RS485</b>	1200 à 115200 b/s - 10 ou 11 bits

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

<b>IP router</b>	<ul style="list-style-type: none"> <li>■ Static routes</li> <li>■ RIP V2 or OSPF</li> </ul>
<b>DNAT</b>	■ Destination IP address translation
<b>IP @</b>	<ul style="list-style-type: none"> <li>■ WAN : DHCP client or fixed IP @</li> <li>■ LAN : DHCP client - server - fixed IP@</li> </ul>
<b>DNS</b>	<ul style="list-style-type: none"> <li>■ WAN : DYN DNS</li> <li>■ LAN : DNS relay &amp; DNS server</li> </ul>
<b>RAS</b>	<ul style="list-style-type: none"> <li>■ 25 users list with Login + PWD</li> <li>■ PPP over GSM data</li> <li>■ VPN PPTP or L2TP / IPSec or TLS</li> <li>■ M2Me_Secure &amp; M2Me_Connect compatible</li> </ul>
<b>Management</b>	SNMP V2 standard MIB
<b>Configuration</b>	Html server & DIP switches
<b>Ethernet</b>	■ 10 MHz

## Security functions

<b>Caller Identification</b>	<ul style="list-style-type: none"> <li>■ Calling line identification (PSTN, ISDN, GSM)</li> <li>■ PAP-CHAP caller identification protocol)</li> </ul>
<b>Firewall</b>	■ Statefull packet inspection firewall
<b>Log</b>	<ul style="list-style-type: none"> <li>■ Date and time stamp</li> <li>■ Events : Connection, restart, alarm</li> </ul>
<b>Alarm input</b>	1 input : Email - SNMP message
<b>Alarm output</b>	<ul style="list-style-type: none"> <li>■ 1 output Relay 1 A @ 24VDC max.</li> <li>■ Power - port break - ADSL failure</li> </ul>

## Serial gateway

<b>RS232 RS485</b>	<ul style="list-style-type: none"> <li>■ 1 serial port to connect a modem or a serial device</li> <li>■ Raw client &amp; server- Multicast - Telnet</li> <li>■ Modbus master &amp; slave</li> <li>■ 1200 to 115 200 b/s 8 bits parity N/O/E</li> </ul>
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## Ordering infos. IPL- M156 L134 I1128 G134 RS232

<b>V90 PSTN modem</b>	•				
<b>2 wires line modem</b>			•		
<b>ISDN 64 Kb/s BRI</b>				•	
<b>GSM modem</b>					•
<b>RS232-RS485 port for serial device *</b>	•	•	•	•	
<b>RS232-RS485 port for external modem *</b>	•	•	•	•	•

\* 1 serial port to connect either an external modem or or serial device



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