

## Exceptionally reliable back-up solutions designed exclusively for Virtual Private Network Connections.



*Surelink VPN re-route switches provide automatic and reliable backup for ANY IP-based Virtual Private Network.*

Surelink is a stable, reliable back-up solution for any IP-based network connection. The Surelink VPN family of re-route switches provide a complete end-to-end back-up solution for potentially unreliable VPNs, such as leased lines and networks based on ADSL.

### Guaranteed Connectivity

The Surelink products automatically provide emergency back-up via basic rate ISDN, or through any other IP-based alternative route on failure of your VPN connection. They function by continuously probing each other across your VPN connection. If there is any interruption in communication between units, an ISDN dial-around or an alternative IP routing path is invoked. You are alerted to this by means of an email message or SNMP trap.

The units monitor the primary path until they re-establish contact with each other. The backup path is then cleared down and the primary route is re-instated.

## Backup Functionality

Surelink supports ISDN BRI, back up options. A bandwidth on demand facility provides a cost effective way of enabling extra bandwidth on the backup connection. When the bandwidth on a backup ISDN call is exceeded, a second backup line can automatically be brought into service.

To make best use of this bandwidth, a Traffic filtering facility allows the user to define the type of traffic carried over the backup connection. The unit can be configured to disable the re-route functionality during certain periods of the day / week e.g. evenings and weekends.

### The Surelink Family

Surelink is available in three models, Surelink BRI, Surelink Multi-BRI and Surelink LAN. All models can support single and many to one client - server connections. For small scale solutions, Surelink BRI can be used at both client and central server sites, to provide back up for a maximum of two client sites.

Surelink Multi-BRI is aimed at the central server site and medium scale solutions. Multi-BRI has provision to support the backup links of up to six client sites. However, many more client sites can be supported, by allowing clients to contend for the available back up connections. Surelink LAN has the versatility to support as many sites you have connected via your VPN.

### Hardware

Surelink is available with two Ethernet interfaces and one or two Serial interfaces. The Ethernet interfaces provide connectivity from the local LAN to the firewall / broadband VPN device. The serial interfaces support internal ISDN BRI terminal adapters or external analogue modem / leased line interfaces to provide the backup network connections. Surelink BRI comes with Ethernet and Basic Rate ISDN connections; Surelink Multi-BRI comes with Ethernet and 3 Basic Rate ISDN connections and Surelink LAN has two Ethernet connections and connection to any type of ISDN.

### Web based Interface

There is no software to be loaded. Surelink uses a standard browser and the simple web based interface is easy to use and configure.

## HIGHLIGHTS

*A stable, affordable backup mechanism for VPNs.*

*Real-time monitoring and reporting.*

*Automatic re-route of traffic in event of VPN outage.*

*Automatic re-route of traffic back to VPN.*

*Definable failure recognition parameters.*

*Simple to use and configure via web-based interface.*

*Email /SMS or SNMP notification.*

## Standard Features

- Web based interface
- Automatic recognition of VPN failure
- Configurable failure recognition parameters
- Automatic re-route over ISDN BRI / PSTN or Leased line on VPN failure
- Management and configuration via HTTP
- Real-time statistics and event logging
- Backup scheduler
- Email / SMS
- User security

## How Does It Work?

### Network Operation

Surelink sits between the local LAN and the Firewall and / or the ADSL router / modem. The Surelink client and server sides maintain keep-alive messages over the links between all connected sites.

If the keep-alive fails, the back up process will be initiated. Depending on Surelink configuration, the back up can be initiated by either the client or the server. If initiated by the client, the client alone is responsible for establishing the link. The client and server then simultaneously re-route over the backup connection. If initiated by the client and server, the client and server sides contend for the back-up link and back off until one side establishes the link.

During the re-route process, user data is not lost. However, the user may see a short delay as the link sets up and thereafter notice a service speed degradation until the ADSL service returns. Whilst the re-route is in progress, the ADSL link is constantly tested, so that as soon as it becomes available, the user traffic is switched back through the ADSL service.

The dial-up link is then disconnected. This happens automatically, without user intervention. The user is alerted to the failure of the primary link by e-mail or by an SNMP trap. A visual indication of the backup status is also present on the front panel.

### Bandwidth on Demand

When the bandwidth on the backup ISDN call is exceeded, a second backup line can automatically be brought into service.

### Failure Alerts

The unit may be configured to send an e-mail / SMS to a specified address or to use SNMP to notify a Network Management Station on failure and recovery.

### Dial-up checking

A periodic check of the re-route link tests the re-route link is still operational. If the test fails an e-mail may be sent to a configured network manager address.

### Traffic Filtering

The VPN link generally has a higher throughput than the dial-up service, consequently, during re-route vital user traffic will be slowed by perhaps non-vital traffic e.g. HTTP requests (web browsing) or FTP file downloads. The unit can therefore be configured to block nonessential services during ADSL failure.

#### MANUFACTURER:

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Web: www.abtecnec.com

## Technical Specifications

### Processor

MC68EC030 with 16 Mbyte DRAM 2 Mbyte FLASH

### Protocols

TCP/IP  
PPP (MP/LCP)  
ISDN BRI  
V.25Bis  
IP routing

### Configuration Management

Multiple configuration / software images stored in Flash. Remote software upgrade via LAN or WAN

### Management

Local terminal  
TELNET  
HTTP  
SNMP MIB II

### Browser Support

Netscape 4.x or 6.x  
Explorer 5.x +

### Ports

2 x 10Base-T Ethernet  
1 x Serial  
1 x Config

### Serial Interfaces

V.24/V.28  
Transparent ISDN BRI

### LAN Interfaces

10BaseT

### Power Requirements

5 V DC nominal via mains adapter

### Approvals

Safety: EN60950 / IEC950  
EMC: EN55022 Class B, IEC801-2, IEC801-3, IEC801-4.  
Telecoms: CTR2/3/12  
ISDN: A120368F, UK BAPT/95/2258  
AA605042, France 95350 B edition A dossier 73886 TD, Australia A95/79/0357.

### Enclosure

200mm x 150mm x 30mm

### Weight

1kg approx.

### Temperature Range

0 to +40 °C  
20-80% Non-condensing