Orbitor PPP-MP

- **Connect to the Internet !**

- **Interoperates with other vendors' IP/PPP-MP Routers !**

- **128 Kbps ISDN Access !**

- **Secure Firewall Router operation !**

- **Multi-Point Operation for simultaneous Internet & Central Office connections !**
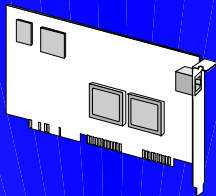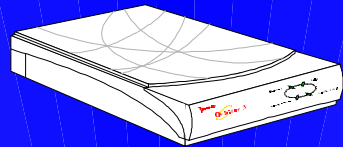

APPLICATION NOTE

PPP-MP Available on Orbitors !

Internet Access & Multi-vendor Interoperability

Now Available on Orbitor 1000/3000 IP Router platforms !

Growth in the Internet has been phenomenal, and by the end of 1996 the number of users is projected to skyrocket to over 40 Million. Over 50,000 companies are now using the Internet—both for advertising their products and as a convenient way of conducting business. Businesses desiring global market exposure are working at a rapid pace to bring up their World Wide Web servers to attract new customers, and to provide up-to-date information to their existing customers.

The greatest problem most Internet users have experienced has been the slow access speed of modems. Until recently, to get better performance you only had one choice —to pay for a dedicated leased line.

Now that ISDN is becoming available in many areas, the ISPs (Internet Service Providers) are beginning to offer dial-up ISDN Internet accounts for users who are demanding pay-as-you-use-it, high-speed 56 to 128Kbps Internet access.

ISDN, being a digital service, requires connecting equipment that is purely digital (i.e. not a modem). An ISDN Terminal Adapter (TA) can be used as a modem replacement for use with ISDN, although a TA has the same limitations as a modem —connection can only be machine-to-machine. As well, the throughput of a TA will be limited by the speed of the PC's serial port.

An ISDN capable Router overcomes any speed limitations of a PCs serial port. A Router also provides important functions that a TA does not have, in particular, security protection and advanced management features, including routing per IP address and sophisticated filtering.
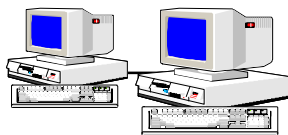
Develcon's Internet Access Equipment

Develcon's Orbitor product line is ISDN and leased line compatible and Internet-oriented. Orbitor 1000 and Orbitor 3000 products are designed for home and small offices with Internet and remote access needs. Advanced security features allow the Orbitor products to function as a secure firewall router.

The Orbitor's PPP-MP implementation has been interoperability tested with a variety of IP Routers, including those from Cisco and Ascend.

#### *Internet Service ~ Subscriber Application*

The Orbitor 1000 provides customers with a multi-station ISDN PC card for connection to corporate resources, or to the Internet. By providing a PC card that is integrated into the PC, users can access the Internet with the speed and cost benefits of ISDN.

In this application, the Orbitor 1000 ISDN PC/ISA card has been installed in the PC. Whenever an application requires network access, an ISDN call is established.

Key Benefits :

- Integrated PC solution.
- Automatically establishes an ISDN connection.
- Supports PPP and PPP-MP for multi-vendor interoperability
- Access speed to 128 Kbps.
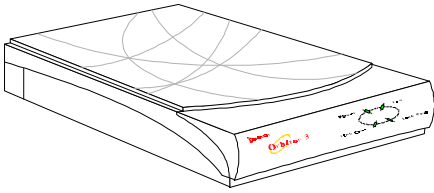- Available with "S/T" or "U" interface.

Central Office
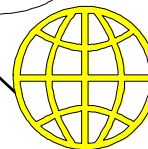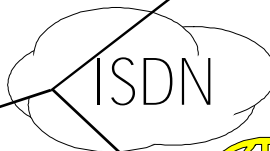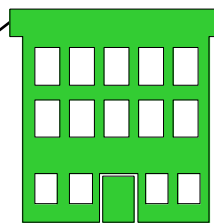
ISDN

Home or Small Office

Internet Service Provider


The Instant Connection

Develcon

**Central
Office
LAN**

**Corporate
Internet Access Application**

Orbitor 3000 IP Router
with PPP-MP

In this application an Orbitor 3000 is used to connect a branch office to the Internet as well as to corporate headquarters via ISDN.

Branch office LAN users can have secure access to all central corporate resources, as well as to the Internet. Interested Internet users can gain access to the company's Web server, but security features prevent those outsiders from gaining access to any resources on the branch or central office LANs.

ISDN

**Branch Office
LAN**

Internet
Service
Provider

Ascend   •••
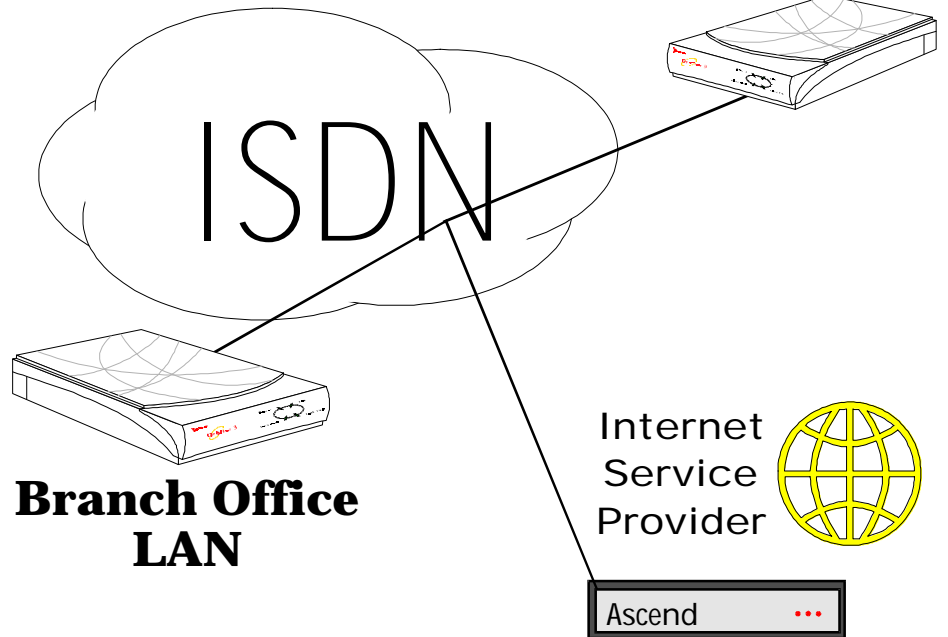
Key Advantages:

- Supports on-demand access
  to **multiple locations**.

- Supports **Point-to-Point**
  operation with **loadsharing**
  at 128Kbps.

- Provides **Secure Firewall
  Router** functionality.

- **Inter-operates** with other IP
  routers, including those from
  Cisco and Ascend.

- Provides a broad range of
  Orbitor added-value features.

- Leased-line versions are
  also available.

Point-to-Point

ISDN

Dual B channel
Loadsharing
@ 128 Kbps

02 May 1996