# RAYMAR
## INFORMATION SOLUTIONS

# EMERALD
## INTEGRATED ACCESS ROUTER

### KEY FEATURES

- Integrated Router and Wide Area Network Interface
- Your choice of Internal DDS, T1/FT1, T1/FT1w/D&I (DSX) CSU/DSU or Serial V.35 (M.34) Interfaces
- NAT and Firewall Security
- Web Browser Configuration and Management Interface
- Full Frame Relay Operation (LMI, Annex A or Annex D)
- Upgradable - To/From any WAN Interface, software downloadable
- Full SNMP Support

### FLEXIBILITY

At last, an integrated access router for customers using Frame Relay, mixed with TDM voice services. Imagine delivering the IP based Internet/Intranet services your company needs, along with T1 voice connectivity on the T1 connection. With the Emerald 1000D you can do just that. Connect a Frame Relay service for your Internet and Intranet services, while delivering dialtone to your PBX using the available remaining DS0's of your T1. Shared T1 services save you time and money, while cutting complexity. This solution is easy to manage, thanks to its web enabled interface. Imagine being able to manage the Emerald from anywhere in your network. Even software upgrades can be done from one place in the network, simplifying network related tasks.

### MANAGEMENT

The Emerald supports SNMP via it's 10-base-T Ethernet port for both local and remote maintenance. The Emerald delivers the monitoring of ports, network facilities, and Frame Relay conditions with time and date stamped critical information. Complete SNMP management with real time alarm messages delivered to SNMP tools like ATwork and InfoVista as well as managers like HP Openview, IBM Netview, and SNMPc.

### SUPPORT

No long voice mail menus and no "DJ" telling you how long your wait will be. Real, living people answer our phones to assist you. Our five year warranty and first year free overnight replacement policy continues to demonstrate our commitment to you.



**AMERICAN TECHNOLOGY IS A DIVISION OF RAYMAR INFORMATION SOLUTIONS**

**RAYMAR** INFORMATION SOLUTIONS

## 1000A  V.35 SERIAL LINE INTERFACE

| | |
|---|---|
| Data Port, Connector: | V.35, M.34 |
| | AutoDetect for EIA530/RS449 |
| Operating Speeds: | 64-2,048Kbps |

## 1000B  DDS LINE INTERFACE

| | |
|---|---|
| Line Rate: | 56/64Kbps |
| Framing, Line Coding: | ESF, B8ZS |
| Connector: | RJ48S |
| Compliance: | AT&T 62310 |

## 1000C/D  T1 LINE INTERFACE

| | |
|---|---|
| Line Rate: | 1.544 Mbps |
| Framing, Line Coding: | ESF, B8ZS |
| Connector, Input Signal: | RJ48C, DS-1 |
| Jitter & Pulse Template: | Per AT&T TR 62411 |
| Synchronous Rate: | N x 56 Kbps or N x 64 Kbps |
| | $(1 \leq N \leq 24)$ |

## 1000D  DSX INTERFACE

| | |
|---|---|
| Line Rate: | 1.544 Mbps |
| Framing: | D4/ESF/54016/T1.403 (selectable) |
| Line Coding: | AMI/B8ZS (selectable) |
| Connector, Input Signal: | RJ48C /DS-1 |
| Line Driver Mode: | Operation up to 655 feet |

## ETHERNET INTERFACE

| | |
|---|---|
| Ethernet: | One Port:  10-Base-T (RJ-45) |

## CONSOLE PORT

*(defaults underlined)*

| | |
|---|---|
| Electrical, Connector: | RS-232, RJ-50 |
| | (DB-9 Cable Included) |
| Format: | Asynchronous |
| Parity: | None, Even, Odd |
| Data Bits: | 7, 8 |
| Stop Bits: | 1 |
| Data Rates: | 9600, 14,400, 19,200, 38,400 bps |

## COMPLIANCE

| | |
|---|---|
| FCC Part 15 Class A | FCC Part 68 Sub Part D |
| UL1950 | ANSI T1.403-1989 (T1 Ports) |
| CSA 22.2 No. 950 | DOC-CS-03 |
| AT&T TR54016, 54019, 5419A, 62411, 62310 | |

## PHYSICAL

| | |
|---|---|
| Dimensions | 8.5"(W) x 2.0"(H) x 10.5"(D) |
| RM-3 Rackmount | 19"(W) x 2.25"(H) x 9"(D) |
| | (2RU High) |

## MODELS

| | |
|---|---|
| 1000A | One Port Serial V.35 (M.34) |
| 1000B | One Port DDS (56/64Kbps) |
| 1000C | One Port T1/FT1 |
| 1000D | One Port T1/FT1 with |
| | Drop & Insert |
| RM-3 | Rackmount Chassis for 2 Units |

**Installing the Emerald, is as easy as**  ① ② ③

DSX T1 HERE

WAN Port (V.35)

POWER

T1/FT1 or DDS HERE

SERIAL (V.35) HERE

② Connect the LAN

③ Connect the Power

① Connect the Wide Area Network Connection  **...and GO CONFIGURE ..It's that SIMPLE**