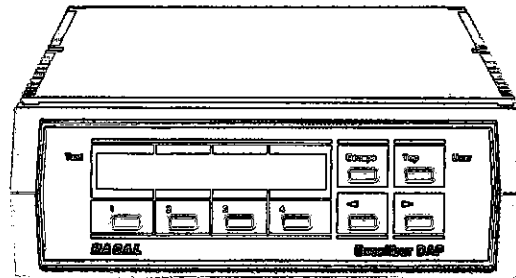# Excalibur™ Multirate DAP

The Excalibur™ Multirate Digital Access Product (DAP) is designed for multirate performance. This versatile, user-friendly unit is compatible with all digital data services (DDS), including Frame Relay. Speedy operation between your data terminal equipment (DTE) and selected service is offered at DDS line rates up to 64 Kbps.

With Racal's noninterruptive secondary channel, the rate adaption feature provides additional speeds when operating on Basic Digital Service and allows the port speed to be set at a lower rate than the actual DDS line.

Digital Access Product

Multimode Versatility

For leased-line circuits, the Excalibur Multirate DAP offers the versatility to change between services as your needs and tariffs change. Choose from several options:

• Basic Digital Service with interruptive diagnostics.

• Basic Digital Service with less bandwidth, whereas the Excalibur Multirate DAP automatically converts it to a noninterruptive secondary channel. You can receive alarms or interrogate remote units without interrupting the data flow.

• Basic Digital Service where the carrier provides a noninterruptive secondary channel.

• Customer-owned copper wire for short-haul point-to-point limited distance communications.

• Clear Channel 64 Kbps service provides all 64 Kbps as data or up to 57.6 Kbps with a noninterruptive secondary channel.

Multiport/Multidrop Compatible

The Excalibur Multirate DAP can be used for multiport/multidrop applications. It may be used at remote locations requiring only one port. For applications requiring a single port, the unit can operate as a multidrop central or remote.

Dial Backup Options

In the event your network or digital lines go down, the Excalibur Multirate offers dial backup options. Whether you choose analog lines, Switched 56, or ISDN backup, this unit can keep your operation up and running. In addition, the dial backup connections can be established either automatically or manually.

Network Management Options

Excalibur Multirate DAPs are available in models that can be managed fully by Racal's CMS™ 400 or via SNMP with an integral MIB-II-compliant SNMP agent. Full TELNET client support is included with SNMP.
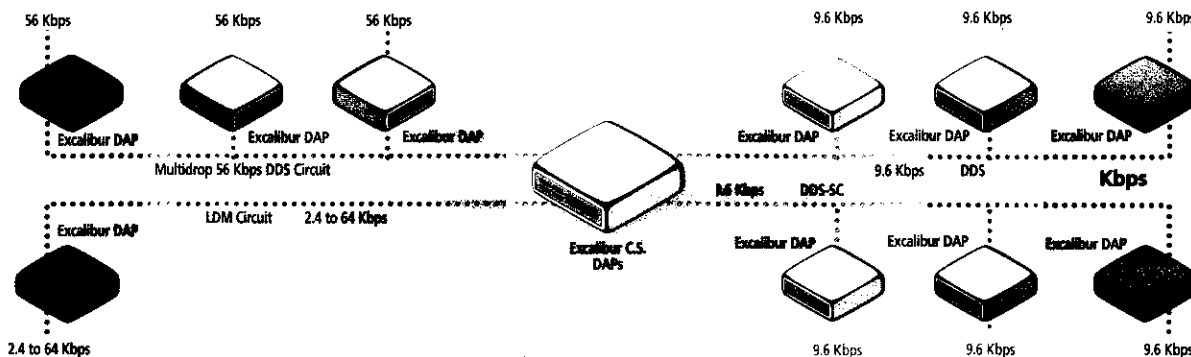
The CMS management system operates in a Microsoft Windows®, HP OpenView™, or Tivoli

TME 10™ NetView™ for AIX environment. It provides a custom SNMP application with a sophisticated GUI (Graphical User Interface) to help configure the Excalibur Multirate DAP, monitor its performance, provide extended network-wide statistics, and integrate traps.

CMS makes Excalibur Multirate DAP configuration and operation quick and intuitive – with extensive on-line help available should you need assistance.

For SNMP support, the DAP provides a synchronous or asynchronous PPP/synchronous SLIP interface. For stand-alone units, an optional Ethernet interface is available. With a direct Ethernet connection to the LAN, you save the expense of dedicating an expensive port from the router or providing an additional LAN Server to route your SNMP traffic.

• **Multirate, 2.4 to 64 Kbps**

• **Multimode (operates on any DDS service)**

• **SNMP or Racal's proprietary management protocol**

• **TELNET client support**

• **CMS™ network management compatibility**

• **Analog 2-wire 14.4 Kbps Switched 56 4-wire, or ISDN 2-wire dial backup option**

• **Line-Quality Statistics**

• **Rate adaption**

• **Fully soft strapped**

Multimode Applications

Excalibur Multirate DAP

technical specifications

Line Requirements	Operates over all Digital Type 1 services and Clear Channel 64 Kbps services; also can operate over customer-owned copper wire.
Dial Backup Options	Connections: 2-wire 14.4 Kbps analog, 4-wire Switched 56 Kbps or 2-wire Integrated Services Digital Network (ISDN)
	Analog dial backup - operates in Programmable or Permissive mode; supports V.32bis or V.32bis+ (Racal proprietary mode with non-interruptive secondary channel) format.
	Switched 56 dial backup operates at 56 Kbps over MCI's Switched 56 Service, AT&T's Accunet Switched 56 Service or Sprint's Enhanced Switched 56 Service.
	ISDN dial backup operates at 56 or 64 Kbps over ISDN Basic Rate service. It complies with all applicable specifications, including National ISDN-1 standard, Northern Telecom Basic Rate Access and AT&T Basic Rate Access. It can operate with another DAP equipped with Switched 56 dial backup, providing backup to locations where ISDN service is unavailable.
Network Configurations	Point-to-point, multipoint
DDS Channel Rates	2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps
DTE Speeds	Basic digital service with Racal noninterruptive SC: 1.2 to 52.8 Kbps in multiples of 1200 bps (except 3.6 and 6 Kbps are not provided) and 56, 57.6 Kbps synchronous; 75, 150, 300, 600, 1200 bps, and 2.4, 4.8, 7.2, 9.6, 12, 14.4, 16.8, 19.2, 24, 28.8, 48, 57.6 Kbps asynchronous
DTE Interface	EIA-232-E, V.35
Channel Interface	8-position modular jack RJ-48S, AT&T standard
CMS Interface	10-position modular jack (T7)
SNMP Interface	10-position modular jack, synchronous or asynchronous PPP/asynchronous SLIP interface at rates of 2.4, 4.8, 9.6, and 19.2 Kbps. For stand-alone units, an optional Ethernet (10BaseT/RJ45) COM port interface is available.
Network Management	All versions are managed via the Racal management system or SNMP. Note: The multiport/multidrop feature and the analog dial backup option are not offered with SNMP.
Receiver Sensitivity	0 to 40 dB loss minimum, up to -45 dB dependent on the service
Clocking	Internal, external and slave
Approvals	FCC Part 15 and Part 68, Industry Canada, Bell Canada, UL approved
Power Supply	External, 92-127 VAC, 55-65 Hz
Physical Specifications	Height 3" (7.6 cm)
	Width 8" (20.3 cm)
	Depth 12" (30.5 cm)

Our policy of continuous development may cause the information and specifications contained to change without notice.

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