

9620/21

56K FRAME RELAY ACCESS UNIT



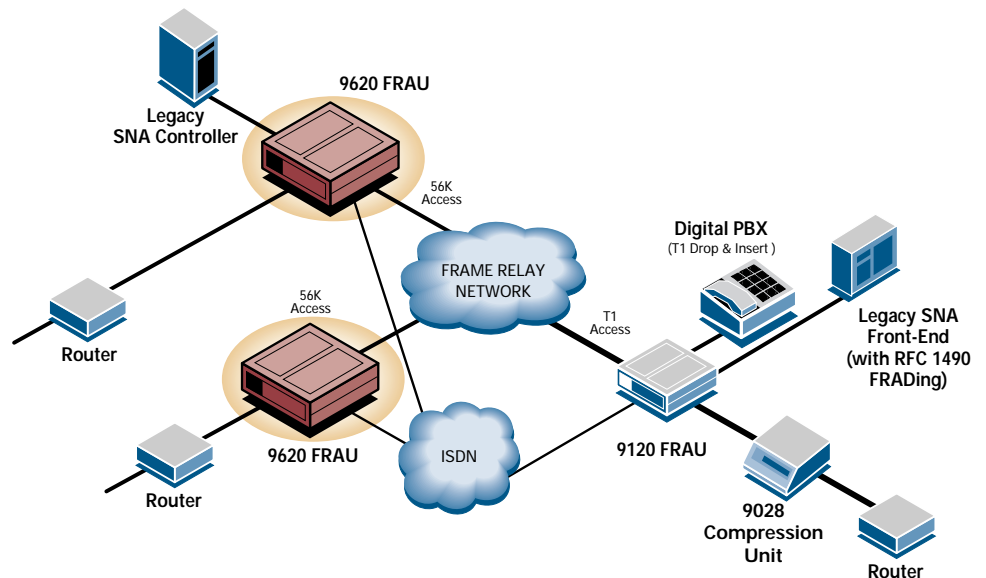
BENEFITS

- MAXIMIZES NETWORK AVAILABILITY— WITH THE 9620'S EXCLUSIVE PVC-BASED MANAGEMENT, YOU CAN MANAGE BOTH PHYSICAL AND LOGICAL NETWORK CONNECTIONS AT ANY LOCAL OR REMOTE LOCATION
- ENHANCED SNMP-BASED NETWORK MANAGEMENT CONNECTIVITY OPTIONS ELIMINATE DEPENDENCY ON ROUTERS OR EXTERNAL DEVICES AND PROVIDE TRUE END-TO-END MANAGEMENT ACROSS YOUR FRAME RELAY NETWORK
- STANDARDS-BASED FRAME RELAY-COMPATIBLE DATA COMPRESSION REDUCES BANDWIDTH REQUIREMENTS AND PORT CHARGES BY UP TO 75 PERCENT
- FRAME RELAY AGGREGATION REDUCES FRAME RELAY ACCESS, PORT AND PVC COST
- OPTIONAL ISDN BACKUP PROVIDES "TRANSPARENT" CIRCUIT RESTORAL WITHOUT OPERATOR INTERVENTION

The Paradyne™ 9000 Series frame relay access products take frame relay network access to a whole new level!

Far more than just a DSU, the Paradyne 9620 Frame Relay Access Unit (FRAU) is designed with value in mind. The 9620 provides 56/64K frame relay network access, money-saving data compression, port aggregation, and advanced network management and statistics. This robust feature set is designed to maximize frame relay network availability and your return on investment. Optional capabilities, such as transparent ISDN restoral, allow the 9620 to be tailored to meet a wide range of network environments.

Unlike many of today's "pieced together" approaches, the 9620 FRAU is designed specifically for frame relay networks and the people who manage them. The 9620 offers unique Permanent Virtual Circuit (PVC)-based network management and SNMP connectivity that isn't dependent on external routers, FRADs, cables, or LAN adapters. PVC-based management allows the 9620 FRAU to provide a fully integrated view of both the physical and logical frame relay network and to deliver true "end-to-end" management of your frame relay network. The 9620 standalone unit comes complete with a 9621 Network Access Module (NAM) mounted in a 9000 Series single-slot housing.



FEATURES

- FULL-FEATURED 56/64K DSU OPTIMIZED FOR FRAME RELAY ACCESS
- PVC-BASED FRAME RELAY AWARE NETWORK MANAGEMENT SUPPORTS INBAND TROUBLESHOOTING AND CONFIGURATION CONTROL
- COMPREHENSIVE PHYSICAL AND LOGICAL FRAME RELAY ACCESS MANAGEMENT AND STATISTICS
- INTEGRATED SNMP AGENT, TELNET AND ASCII TERMINAL MANAGEMENT INTERFACES
- MULTIPLE SNMP MANAGEMENT CONNECTIVITY OPTIONS
- INTEGRATED FRAME RELAY-COMPATIBLE DATA COMPRESSION
- BUILT-IN FRAME RELAY STATISTICAL PORT AGGREGATION
- OPTIONAL INTEGRATED ISDN BRI DIAL-BACKUP
- OPTIONAL HP OPENVIEW AND IBM NETVIEW AIX GRAPHICAL MANAGEMENT APPLICATIONS

9620/21 SPECIFICATIONS

Standalone Housing

Width: 8.75 inches (222 mm)
Length/Depth: 12.8 inches (325 mm)
Height: 3.15 inches (80 mm)

Weight

2.59 lbs. (1.18 kg)

Physical Interface/Connectors

NET - DDS/frame relay network port: One 8-position modular keyed USOC RJ48S jack
PORT - DTE synchronous data ports: Two 25-pin (DB25) subminiature EIA-232E/V.24/V.35 connectors
COM - Communications management port: One 8-position modular keyed jack
BKP - One 8-position modular un-keyed jack

Front Panel Indicators

12 LEDs for device and network Health and Status

Power

Normal Service Voltage Range: 120 VAC \pm 12 VAC, 60 Hz \pm 3 Hz
Power Consumption: 11 watts, 0.175 amps input current @ 120 volts
Heat Dissipation: 37.5 BTUs per hour

Physical Environment

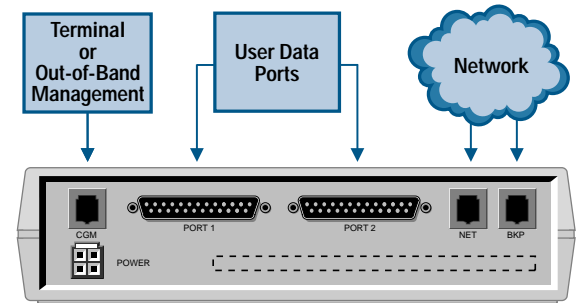
Operating Temperature: 35°F to 122°F (1.7°C to 50°C)
Storage Temperature: 4°F to 156°F (20°C to 70°C)
Relative Humidity: 5% to 85% non-condensing
Shock and Vibration: Withstands normal shipping and handling

Approvals

FCC Part 68: Refer to the equipment's label for the registration number
FCC Part 15: Class A digital device
UL: 1950
CSA: Certified 22.2, No. 950-93
CSA: 108.8-MI983

NET Port (DDS/Frame Relay Interface)

Data Rate: 56 Kbps and 64 Kbps
Data Encoding: Bipolar return to zero complies with AT&T Tech. Reference 62310 - 2987
Transmit Level: +6 dBm
Receive Level: -42 dBm @ 56 Kbps
Transmit & Receive Impedance: 135 ohms nominal



DATA Ports (DTE Interfaces)

Synchronous Uncompressed Data Rates: 9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, and 64 Kbps
Synchronous Compressed Data Rates: 9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, 128, 192, and 256 Kbps
Number of DLCIs Supported: Up to 20 per unit

Compression

Incorporates FRF.9 and Stac®LZS® compression
Compression Rate: Nominal range 2:1 to 4:1 (data and network dependent)
Flow Control: Variable clock rate or CTS signaling
Number of PVCs Supported: Up to 6

COM Port

Format: Async/ASCII, VT100-compatible terminal or PC

Standards Compliance

AT&T InterSpan Frame Relay Service Specification
US Sprint Frame Relay Service Interface Specification 5136.03
ANSI T1. 606, 617 & 618 - Frame Relay Bearer Services and Protocols
ITU Recommendation Q.922 - ISDN Data Link Layer Specification
ITU Recommendation Q.933 Annex A - Procedures for Permanent Virtual Connections
ITU I.122/I.233 - Framework for Frame Mode Bearer Services

Network Management SNMP MIBs Supported

RFC 1213 - MIB II
RFC 1573 - Interface Group Evolution
RFC 1315 - Frame Relay DTEs
RFC 1604 - Frame Relay Service
RFC 1659 - RS232-like
Paradyne Enterprise MIB

All 9000 Series products are backed by a two-year, return-to-factory warranty and full on-line phone support. Extended warranties are available upon request.

It is the policy of Paradyne to improve products as new technology, software, components, and firmware become available. Paradyne, therefore, reserves the right to change specifications without prior notice. All features, functions, and operations described herein may not be marketed by Paradyne in all parts of the world.

Another reason to connect with Paradyne —
The industry leader and winner of the
"Best New Carrier/WAN Product"
Award at ComNet '97.



For additional information on this or any Paradyne product or service, contact the office nearest you. Or, dial toll-free (USA and Canada) 800 482-3333 or call 813 530-8623. Fax (USA) 813 530-2103.

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