

COMSPHERE®

3920PLUS SERIES

V.34 ANALOG PRIVATE LINE MODEM

B E N E F I T S

- MEETS HIGH-SPEED NETWORK REQUIREMENTS WITH SPEEDS UP TO 33,600 bps OVER TWO OR FOUR-WIRE LEASED-LINE AND PUBLIC SWITCHED DIAL NETWORKS
- PROTECTS HARDWARE INVESTMENT WITH SOFTWARE-DRIVEN ARCHITECTURE
- FOUR-PORT TIME DIVISION MULTIPLEXER (TDM) PROVIDES MAXIMUM EFFICIENCY OVER ANALOG LEASED-LINE CIRCUITS, REDUCING POTENTIAL FOR ADDITIONAL LINES AND COMMUNICATIONS EQUIPMENT
- PARADYNE'S NETWORK MANAGEMENT SYSTEM ENSURES ADVANCED MODEM CONTROL, NETWORK EFFICIENCY, AND FAULT ISOLATION, MAXIMIZING APPLICATION UPTIME AND USER SATISFACTION
- PREVENTS INTERRUPTIONS OR DATA LOSS WHEN SWITCHING BETWEEN LEASED LINE AND DIAL RESTORAL
- DELIVERS FASTER RESPONSE TIMES WITH TRELIS MULTIPOINT TURN-AROUND TIMES AS LOW AS 10 MILLISECONDS
- SUPPORTS DIAGNOSTIC TAIL CIRCUITS



The COMSPHERE 3920Plus Series of software definable, high-speed, network-managed, analog private line modems are fully compatible with ITU V.34 with data rates up to 33,600 bps.

Based on Paradyne's award-winning COMSPHERE 3800 Series architecture, the software-defined flexibility of the 3920Plus Series allows you to change, upgrade, or enhance both the single-port and four-port families of modems, via downloads over the public switched or leased-line network.

The COMSPHERE 3920Plus Series delivers unsurpassed reliability with its full-featured standalone and carrier mount designs for either point-to-point or multipoint applications. The four-port Time Division Multiplexer (TDM) modem family maximizes your applications' network efficiency and cost effectiveness by reducing the potential for additional lines and/or equipment.

The single-port modem family is the newest member of the 3920Plus Series. Like the other members of the series, the single-port fully supports ITU V.34 (33,600 bps) can be network managed by the COMSPHERE 6700 Network Management System; and meets the requirements to support data integrity and speed critical analog applications.

The COMSPHERE 3920Plus Series modems can be configured for two or four-wire analog leased-line networks with dial restoral via two-wire dial or two-wire leased line. Should the line quality deteriorate, the COMSPHERE 3920Plus Series modems (if optioned) will automatically downshift to lower speeds, attempting to preserve the link. If the modems are not able to operate at the minimal selected rate, the modem will initiate non-disruptive dial restoral.

FEATURES

- SUPPORTS DATA RATES UP TO 33,600 bps
- HIGH-SPEED, MULTIPOINT OR POINT-TO-POINT NETWORK SUPPORT WITH MIXED INBOUND/OUTBOUND RATES IN MULTIPOINT MODE
- FOUR-PORT TIME DIVISION MULTIPLEXER (TDM) AND MODEM SHARING DEVICE (MSD) FUNCTIONALITY
- DESIGNED FOR GROWTH AND MIGRATION WITH SOFTWARE DOWNLOADING OF UPGRADES AND NEW FEATURES OVER THE DIAL OR LEASED-LINE NETWORK
- FULLY INTEGRATED LEASED-LINE NETWORK MANAGEMENT CAPABILITY WITH THE COMSPHERE 6700 NETWORK MANAGEMENT SYSTEM (NMS)
- AUTOMATIC AND NON-INTERRUPTIVE RESTORAL OF THE PRIMARY LEASED LINE WITH HIGH-SPEED DIAL OR SECONDARY TWO-WIRE LEASED LINE
- MULTIPOINT DIAL RESTORAL CAPABILITY
- FRONT PANEL CONTROL OF LOCAL AND REMOTE MODEMS FOR CONFIGURATION, CONTROL AND STATUS
- SUPPORTS ITU V.34, V.33, V.32 bis, V.32, V.29, V.27 bis, AND 19,200* bps

SPECIFICATIONS

Leased-Line Modulations:

ITU V.34: 33.6 Kbps, 31.2 Kbps, 28.8 Kbps, 26.4 Kbps, 24 Kbps, 21.6 Kbps, 19.2 Kbps, 16.8 Kbps, 14.4 Kbps, 12 Kbps, 9.6 Kbps, 7.2 Kbps, 4.8 Kbps TCM synchronous/asynchronous

ITU V.33: 14.4 Kbps, 12 Kbps TCM synchronous
V.32*terbo**: 19.2 Kbps, 16.8 Kbps TCM, synchronous/asynchronous

ITU V.32 bis: 14.4 Kbps, 12 Kbps, 9,600 bps, 7,200 bps TCM, 4,800 bps Quadrature Amplitude Modulation (QAM) synchronous/asynchronous

ITU V.32: 9,600 bps TCM, 4,800 bps QAM

ITU V.29: 9,600 bps TCM, 4,800 bps QAM synchronous

ITU V.27 bis: 4,800 bps 2,400 bps Differential Phased Shift Keying (DPSK)

Multipoint Modulations:

Trellis Multipoint 19.2 Kbps, 14.4 Kbps, 9,600 bps, 7,200 bps, 4,800 bps, 2,400 bps

Dial Modulations:

ITU V.34

V.32*terbo**

ITU V.32 bis

ITU V.32

ITU V.22 bis: 2,400 QAM

ITU V.22: 1,200 DSK

ITU V.23: 1,200/75 bps, 600/75 bps (FSK)

ITU V.21: 300 bps FSK

AT&T 212A 1,200 bps (DPSK)

AT&T 1035 300 bps (FSK)

Transmit VF Interface

Signal level: Selectable 0 to -15dbm

Impedance: 600 ohms +10% balanced

Out of band energy meets international standards

Receive VF interface

Impedance: 600 ohms + 10% balanced

VF Connectivity

Leased line JM 8 (Standalone) 50-pin Mass

Termination (Nestcard)

Dial Line RJ-11C permissive (Standalone)

RJ-21X permissive 50-pin connector (Nestcard)

DTE interface

(Standalone) CCITT V.24/EIA-RS232-D

25-pin D Type sub miniature connector

Power Requirements

100 to 240 VAC, 50-60 Hz (Standalone)

100 to 240 VAC, 50-60 Hz and 48V DC (Nestcard)

Power Consumption

6 watts speaker off (Standalone)

4 watts each card (Nestcard)

Operating Environment

Normal temperature: 32°F (0°C) to 122°F (50°C)

Relative humidity: 5% to 90% non-condensing

Shock and vibration: withstands normal shipping

Storage temperature: -4°F (-20°C) to 158°F (70°C)

Auto-Mode

V.34/V.32*terbo**/V.32 bis/V.32/V.22 bis/V.22/212A/1035

Dimensions

Standalone

7.6" W x 12" D x 2.2" H

(19.3 cm W x 30.48 cm D x 5.59 cm H)

Nestcard

7.25" W x 13" D x 0.97" H

(18.42 cm W x 33.02 cm D x 2.46 cm H)

Weight

40 oz. (1.13 Kg) (Standalone)

16 oz. (0.45 Kg) (Nestcard)

Approvals

The COMSPHERE 3920*Plus* Series meets an extensive list of country certifications/approval requirements. Orderable model and feature numbers vary by country.

A few more reasons to connect with Paradyne—the industry leader and winner of these awards for modem products.



For additional information on this or any Paradyne product or service, contact the office nearest you. Or, dial toll-free (USA) 800 PARADYNE or call 813 530-8623. Fax (USA) 813 530-8216.

Toronto 905 709-5000 fax: 905 709-3469
Hong Kong 852 2543-0083 fax: 852 2541-3767
Singapore 65 355-5230 fax: 65 355-5244
France 33 492 942-500 fax: 33 492 942-501
China 8610 6499-1425 fax: 8610 6492-5915

Montreal 514 288-0001 fax: 514 288-1246
Japan 81 3-5541-6630 fax: 81 3-5541-6631
Latin America 813 530-8358 fax: 813 532-5240
Visit the Paradyne Power Pages at <http://www.paradyne.com>
Japanese Language website: www.paradyne.co.jp

*V.32*terbo* (19,200 bps) is a Paradyne modulation which is currently not supported by the ITU. Specifications subject to change without notice. Printed in U.S.A. © Paradyne Corporation 1998.

COMSPHERE is a registered trademark of Paradyne Corporation. PARADYNE is a trademark of Paradyne Corporation. All other products or services mentioned are the trademarks, service marks, registered trademarks, or registered service marks of their respective owners.