

COMSPHERE[®]

3800PLUS SERIES

V.34 SERIES MODEMS



B E N E F I T S

- ENSURES MINIMAL CONNECTION TIME, SAVING LINE COSTS AND INCREASING NETWORK AVAILABILITY
- EXTENDS MODEM LIFE, PROTECTING YOUR INVESTMENT, WITH PARADYNE'S REVOLUTIONARY SOFTWARE-DRIVEN ARCHITECTURE
- COMPLIES WITH THE LATEST INDUSTRY STANDARDS FOR MODULATION SCHEMES AND COMPRESSION ALGORITHMS, ENSURING NETWORK COMPATIBILITY AND OPTIMAL ERROR-FREE THROUGHPUT
- NETWORK MANAGEMENT ENSURES ADVANCED MODEM CONTROL, NETWORK EFFICIENCY AND FAULT ISOLATION, MAXIMIZING APPLICATION UPTIME AND USER SATISFACTION

For high-speed data communications with built-in flexibility and reliability, Paradyne™ offers the COMSPHERE 3800Plus Series of V.34 modems. The COMSPHERE 3800Plus is the first family of modems to support V.34 speeds. This family of state-of-the-art modems supports a variety of modulation schemes and functionality for high-speed dial-up and two- or four-wire leased-line applications. Consisting of four full-featured modems, the COMSPHERE 3800Plus Series family utilizes Paradyne's award-winning architecture to allow new features and enhancements to be downloaded over the telephone lines.

The COMSPHERE 3800Plus Series modems were the first in the industry to provide 33,600 bps line rate. By providing ITU V.34 compliant 33,600 bps speeds, these modems allow users to minimize network on-line time, thus increasing network availability.

Managed by Paradyne's COMSPHERE 6700 Network Management System (NMS), the COMSPHERE 3800Plus is a cost-effective solution to today's growing network requirements.

COMSPHERE 3800Plus modems offer an innovative solution to high-speed network requirements by ensuring optimal error-free communications for your business' critical data. With a unique architecture supported by a leading-edge data pump designed by Paradyne and Bell Laboratories, COMSPHERE 3800Plus modems provide high performance and unmatched reliability.

FEATURES

- INDUSTRY'S FIRST MODEM TO SUPPORT V.34 SPEEDS UP TO 33.6 Kbps
- DESIGNED FOR EASY MIGRATION TO SUPPORT NEW FUNCTIONALITY AND OPTIONAL FEATURES THROUGH SOFTWARE DOWNLOADING
- PROVIDES A SOPHISTICATED NETWORK SECURITY SYSTEM TO MINIMIZE UNAUTHORIZED ACCESS
- USER-FRIENDLY CONFIGURATION AND CONTROL CAPABILITIES VIA THE DIAGNOSTIC CONTROL PANEL (DCP), NMS OR AT COMMANDS
- ENHANCED ASYNCHRONOUS DATA PERFORMANCE WITH ITU V.42bis OR MNP 5 DATA COMPRESSION
- 100 PERCENT DATA INTEGRITY WITH ITU V.42 OR MNP LEVEL 4 ERROR CORRECTION
- REMOTE CONFIGURATION, CONTROL AND STATUS VIA THE LCD DIAGNOSTIC CONTROL PANEL (DCP), COMSPHERE 6700 NMS, OR "AT" COMMAND SET
- FULL COMPLEMENT OF SELF TESTS, LOCAL AND REMOTE LOOPBACKS INCLUDING COMPLIANCE WITH ITU V.54

COMSPHERE 3800PLUS MODEM FEATURES

	3810Plus (2/4-Wire)	3811Plus (2/4-Wire)	3821Plus Triple Modem (2-wire)	3825Plus (2-Wire)
Standalone Multimount Card	Yes No	No Yes	No Yes	Yes No
Software-Defined Architecture				
Firmware Downloads	Yes	Yes	Yes	Yes
Optional Feature Downloads	Yes	Yes	Yes	Yes
Modulations V.34, V.32terbo*, V.32bis, V.32, V.22bis, V.22, 212A, 103J, V.21	Yes	Yes	Yes	Yes
Error Correction ITU V.42, MNP 2-4	Yes	Yes	Yes	Yes
Data Compression ITU V.42bis, MNP 5	Yes	Yes	Yes	Yes
Network Management Control	Yes	Yes	Yes	Yes
Network Security				
Access Security 20 Passwords	Yes	Yes	Yes	Yes
Optional 3000 Passwords	No	Yes	Yes	No
Callback Security	Yes	Yes	Yes	Yes
Dialing				
ITU V.25bis	Yes	Yes	Yes	Yes
"AT" Commands	Yes	Yes	Yes	Yes
6700 Network Management System	Yes	Yes	Yes	Yes
Diagnostic Control Panel	Yes	Yes	No	No
Management System				
Diagnostic Control Panel	Yes	Yes	No	No
Auto Dial Backup to leased lines	Yes	Yes	No	No
Optional Modulations				
ITU V.33	Yes	Yes	No	No
ITU V.29	Yes	Yes	Yes	Yes
Cellular Protocol Support Enhanced Throughput Cellular (ETC*)	Yes	Yes	Yes	Yes

3800PLUS SPECIFICATIONS

Dial 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 and 4.8 Kbps Trellis Coded Modulation (TCM) synchronous/asynchronous
V.32terbo* 19.2 Kbps, 16.8 Kbps TCM, synchronous/asynchronous
ITU V.32bis 14.4 Kbps, 12 Kbps, 9600 bps, 7200 bps TCM, 4800 bps Quadrature Amplitude Modulation (QAM), synchronous/asynchronous
ITU V.32 9600 bps, 4800 bps QAM, synchronous/asynchronous
ITU V.22bis 2400 bps QAM, synchronous/asynchronous
ITU V.22 1200 bps QAM, synchronous/asynchronous, Differential Phase-Shift Keyed (DPSK)
AT&T 212A 1200 bps, synchronous/asynchronous, DPSK
AT&T 103J 300 bps, asynchronous, Frequency Shift Keyed (FSK) ITU V.21 300 bps, asynchronous, FSK

4-Wire 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 and 4.8 Kbps
V.32terbo* 19.2 Kbps, 16.8 Kbps
ITU V.32bis 14.4 Kbps, 12 Kbps, 9600 bps, 7200 bps, 4800 bps
ITU V.32 9600 bps, 4800 bps
ITU V.22bis 2400 bps
ITU V.33 (Optional Software) 14.4 Kbps and 12 Kbps
ITU V.29 (Optional Software) 9600 and 4800 bps

Auto-Mode

V.34/V.32terbo*/V.32bis/V.32/V.22bis/V.22/212A/103J

Auto Rate(Fall back/forward)

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, 9600 bps, 7200 bps, and 4800 bps

DTE Rates (Asynchronous)

115.2 Kbps, 57.6 Kbps, 38.4 Kbps, 19.2 Kbps, 14.4 Kbps, 12 Kbps, 9600 bps, 7200 bps, 4800 bps, 2400 bps, 1200 bps, 300 bps

DTE Interface

EIA/TIA 232D/ITU V.24/ISO 2110

Special Functions

20-Number Password Access Security Directory
V.13 Simulated Carrier Control
V.14 Asynchronous-to-Synchronous Conversion
UNIX CD Wink

Power Requirements

117 VAC +10 percent, 60 Hz or 220-240 VAC ± 10 percent, 50 Hz or 60 Hz

Power Consumption

3810Plus, (including power adapter-speaker off): 5.25 watts
3811Plus (each card): 4.25 watts
3821Plus: 7.5 watts
3825Plus (including power adapter-speaker off): 6 watts

Certification

Telco: FCC Part 68 (USA) DOC (Canada)
Safety: UL (USA) CSA (Canada)
Emissions: FCC Part 15, Subpart J, Class A
AW2 USA—74990—MD—E

* V.32terbo is a Paradyne modulation which is currently not supported by the ITU.

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



MOD-38PL-3-0497

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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