

DeskTop V.F. 28.8/33.6

High Speed Private Line V.34 Modem With Automatic Dial Restoral

Highlights:

- Feature-rich, high performance desktop modem ideal for the remote office
- Data speeds up to 33.6 kbps with up to 128 kbps throughput
- Ultra-reliable leased line connections with automatic dial restoral
- Software-based for easy configuration and upgrades
- Multi-level security protects critical applications
- Manage via front panel or remotely via TEAM V.34
- Flash memory



Overview The DeskTop V.F. 28.8 / 33.6 is a member of GDC's family of high-speed, high performance V.34 modems. Ideal for remote office locations, it is available in a dial-only version for high-speed switched network connectivity or in an ADR (Auto Dial Restoral) version for private line access with automatic dial restoral. The DeskTop V.F. 28.8 / 33.6 transmits synchronously or asynchronously at speeds up to 33.6 Kbps. With advanced compression techniques, it can achieve an effective throughput of up to 64 Kbps in synchronous and 128 Kbps in asynchronous applications.

Versatility The DeskTop V.F. 28.8 / 33.6 supports V.34 and slower standard speeds, as well as FAX modes in one compact desktop unit. It is compatible with GDC's rackmount, high density SpectraComm V.F. 28.8 / 33.6 modems, delivering the perfect solution for a wide variety of enterprise applications. Remote DeskTop units can also be paired with SpectraComm 5034 Dual Data Set Emulators (DSEs) in a central T1 groomed access service environment.

Superior Performance The DeskTop V.F. 28.8 / 33.6 hardware/software platform includes a powerful Digital Signal Processor (DSP) that ensures maximum efficiency and reliability. A combination of V.42, MNP-4 and Trellis coding for error detection and correction promotes data integrity over the network. And an Autorate Renegotiation capability

dynamically adjusts operating rates to compensate for switched network line impairments. The result is superior performance, even over PSTN circuits, which typically vary in quality. You can use the public network to support high-speed applications—like remote LAN access—that in the past would have required more reliable, but often less economical, dedicated links.

Effortless Upgrades The DeskTop V.F. 28.8 / 33.6 is completely software definable. Flash memory ensures that upgrades can be done locally, from another location, or downloaded from a central site, as your needs and new developments in modem technology dictate.

Multi-Level Security The DeskTop V.F. 28.8 / 33.6 provides multiple layers of security, including password protection and fixed and roving call back. Steadfast Security[®] protects critical financial, governmental, or company-sensitive applications via a password embedded within the handshake sequence and mandatory callback feature.

Complete Manageability The DeskTop V.F. 28.8 / 33.6 features the comprehensive yet intuitive management that is a must for unattended remote sites. Configuration, optioning and dialing can be accomplished via an interactive, user-friendly command panel with a 2-line LCD and a 12-button keypad. Simplified, menu-driven selections walk the user through a variety of essential communications tasks



and network status displays. Support for "AT" and V.25 bis set-up and dialing allow flow control, FAX/Data modes and other functions to be customized for each application.

Front panel LED indicators report call status, and a full range of diagnostics can be performed locally or from a remote location.

In addition, the DeskTop V.F. 28.8 can be managed using GDC's HP OpenView-based TEAM V.34 application software. TEAM® provides central site configuration and testing of remote DeskTop V.F. 28.8 / 33.6s using an intuitive graphical user interface.

Specifications

MODULATIONS

Data Modes: V.34 - Up to 33.6 Kbps with fallback speeds V.32 bis, V.32, V.22 bis, V.22, V.21, Bell 212A/103
FAX Modes: V.17 at 14.4 Kbps; V.29 at 9.6 Kbps; V.27ter at 4.8 Kbps; Group 3, Class 1

Equalization: Automatic, adaptive

OPERATING FORMAT

Synchronous and asynchronous

OPERATING MODE

Switched network 2-wire/4-wire private line with automatic dial restoral (V.34, V.32 bis and V.32 only)

ASYNCHRONOUS CHARACTER CODES

8, 9, 10 or 11-bit characters, V.14 compliant

CARRIER DETECT ACQUISITION

Assured with a receive level at or above -43 dBm*
Leased line levels: -26 dBm* 4-wire and -33 dBm* 2-wire

CARRIER DETECT RELEASE

Assured with a receive level at or below -48 dBm*
Leased line levels: -31 dBm* 4-wire and -38 dBm* 2-wire

ERROR CORRECTION

ITU-T V.42 and MNP-4

DATA COMPRESSION

Async: ITU-T V.42 bis and MNP-5 giving a throughput of up to 128,800 bps
Sync: Synchronous data compression (proprietary)

CONFIGURATION AND CONTROL

Extended "AT" command set; V.25 bis; front panel initiated dialing and programming

SECURITY

Online password, dial back (fixed and roving), GDC Steadfast security via embedded password

FLOW CONTROL

XON/XOFF; RTS/CTS; external EIA/TIA-232-E signaling using CTS

CALL MONITORING

"AT", V.25 bis, audible

RTS/CTS DELAY

10 to 250 ms, in 10 ms steps; V.13 compliant

LINE INTERFACE

RJ45 Switched Network, RJ11 Phone, RJ45, Private Line

LED INDICATORS

Clear to Send, Transmit Data, Receive Data, Off Hook, Power On, Request to Send, Signal Quality, Test Mode Indicator

OUTPUT LEVEL

Permissive (-9 dBm*) or Adjustable (0 to -15 dBm)

DIGITAL INTERFACE

Standard: EIA/TIA-232-E/ITU-T V.24/V.28/ISO 2110
 Optional: ITU-T V.35, V.36 compatible; EIA/TIA-530-A/V.24/V.10/V.11/ISO 2110 AMD1

PHYSICAL AND ENVIRONMENTAL

Dimensions: 36 mm (1.4 in.) H x 188 mm (7.4 in.)
 W x 279 mm (11.0 in.) D

Weight: .35 kg (1.0 lb.)

Shipping Weight: 1 kg (2.25 lb.)

Operating Temperature: 0° to 45°C (32° to 113°F)

Humidity: Up to 95% (non-condensing)

EMC

Verified to comply with EN 55022 and EN 50082-1

SAFETY PROTECTION

UL recognized (UL 1459) and CSA certified, TUV registered

CERTIFICATION

FCC Part 68 and DOC CS03; CE mark

DOWNLOAD FLASH MEMORY

Firmware upgrades can be loaded to Flash memory using a locally attached IBM-compatible PC

TEST MODE

V.54 Compliant analog loop, remote digital loop, digital loop and self test

REMOTE CONFIGURATION

Remote units can be configured using a central site GDC V.34 modem

* Or per country of origin.

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