

Introduction

This guide describes features, hardware, specifications, and applications for the Motorola Vanguard 100 Frame Relay Access Device (FRAD).

For information on operating system software and configuration, see the Vanguard Documentation Kit, which includes the *Vanguard Basics Manual*.

About the Vanguard 100

The Motorola Vanguard 100 FRAD provides access to frame relay networks in mixed Local Area Network/Systems Network Architecture environments. The Vanguard 100 is suitable for central host sites as well as remote locations, such as branch offices, teller machines, and retail establishments.

Its feature set includes Serial Line IP (SLIP) to TCP/IP conversion with RFC 1490 encapsulation, SDLC to LLC2 conversion using RFC 1490, and SDLC to QLCC conversion for interfacing to X.25 networks.

More than 30 serial protocols are supported, and an optional second port can be used for additional protocol support or as a backup port. SNMP management is standard, as is FLASH memory, permitting remote download of software as application and protocol requirements evolve.

About the Vanguard Family

The Vanguard 100 is part of the FRAD family, whose other members include the Vanguard 100PC, Vanguard 200, Vanguard 300/305, and Vanguard 310 Series.

Vanguard 100PC

The Vanguard 100PC provides the same functionality as the Vanguard 100, housed on a PC serial card.

Vanguard 200

The Motorola Vanguard 200 FRAD enables a diverse combination of terminals, PCs, workstations, and controllers to use public and private frame relay service for interconnection to remote PCs, LANs, or hosts. Vanguard 200 can also connect to public or private X.25 services and provides the capability to migrate to frame relay as those services become available.

Vanguard 300/305

The Motorola Vanguard 300/305 Frame Relay Access Device (FRAD) provides serial devices with LAN Ethernet or Token Ring access into public or private frame relay networks.

The FLASH-based Vanguard 300/305 is available in mono FRAD or duo FRAD configurations with either two or three serial ports and an abundant list of protocol choices. You can order the base unit with an integral DSU and a software application package, making this low-cost FRAD an economical choice for connecting remote LAN sites with both LAN and Serial traffic to public Frame Relay services.

You can also configure extra serial ports on the mono and duo FRAD to provide a backup link to the Frame Relay network port. Or, you can connect them to an external analog dial modem, SW56 DSU, or ISDN BRI TA, to provide an alternate path in case of network failure.

Vanguard 310 Series

The Motorola Vanguard 310 product line is a series of low-cost Ethernet ISDN bridges/routers. They are targeted primarily at the Small Office - Home Office (SOHO) market.

Audience

This guide is intended for operators of the Motorola Vanguard 100 FRAD.

Software Revision Level

The Vanguard 100 runs Release 4.23 and higher of the Network Access Series operating software.

How to Use This Guide

The following table describes the contents of this guide.

<i>This section...</i>	<i>Describes...</i>
Chapter 1	Features, site preparation, cabling, unpacking, and FCC Part 68 guidelines and procedures.
Chapter 2	Hardware, powerup diagnostics, Control Terminal Port connection, and maintenance activities, including replacing daughtercards and DIMs.
Chapter 3	Applications diagrams and configuration sequences.
Appendix A	Specifications, including power and environmental requirements.
Appendix B	Software license and regulatory information.

Special Notices

The following notices emphasize certain information in the guide. Each serves a special purpose and is displayed in the format shown:

■ Note

Note is used to emphasize any significant information.



Caution

Caution provides you with information that, if not followed, can result in damage to software, hardware, or data.

Mise en garde

Une mise en garde vous fournit des informations qui, si elles ne sont pas observées, peuvent se traduire par des dommages pour le logiciel, le matériel ou les données.

Vorsicht

Ein Vorsichtshinweis macht Sie darauf aufmerksam, daß Nichtbefolgung zu Software-, Hardware- oder Datenschäden führen kann.



Warning

Warning is the most serious notice, indicating that you can be physically hurt.

Avertissement

Un avertissement constitue le message le plus sérieux, indiquant que vous pouvez subir des blessures corporelles.

Warnung

Eine Warnung ist der ernsthafteste Hinweis auf Körperverletzungsgefahr.

Related Documentation

Vanguide CD-ROM The Vanguide CD contains all Vanguard documentation available at the time of release. It also contains some Vanguard Operating Software images, and some pre-established configuration memory files (CMEMs) that will be discussed later in this guide. The Vanguide CD-ROM is shipped with each member of the Vanguard family of products. To order an additional copy of the Vanguide CD-ROM, use Product Code 17314.

Other Documentation The following documentation is available on the Vanguide CD, to support the Vanguard 100. It can also be ordered separately. To request any of these sets of documentation, refer to the product codes:

Product Code	Documentation Kit	Includes:
17460	Vanguard Documentation Kit	The printed documentation set, including: <i>Vanguard Alarms and Reports Manual</i> (Part No. T0005) <i>Options and Protocols Binder</i> (T0008)
T0028	Software Installation and Coldloading Manual	<i>Software installation and coldloading instructions for all Network Access Products.</i>
