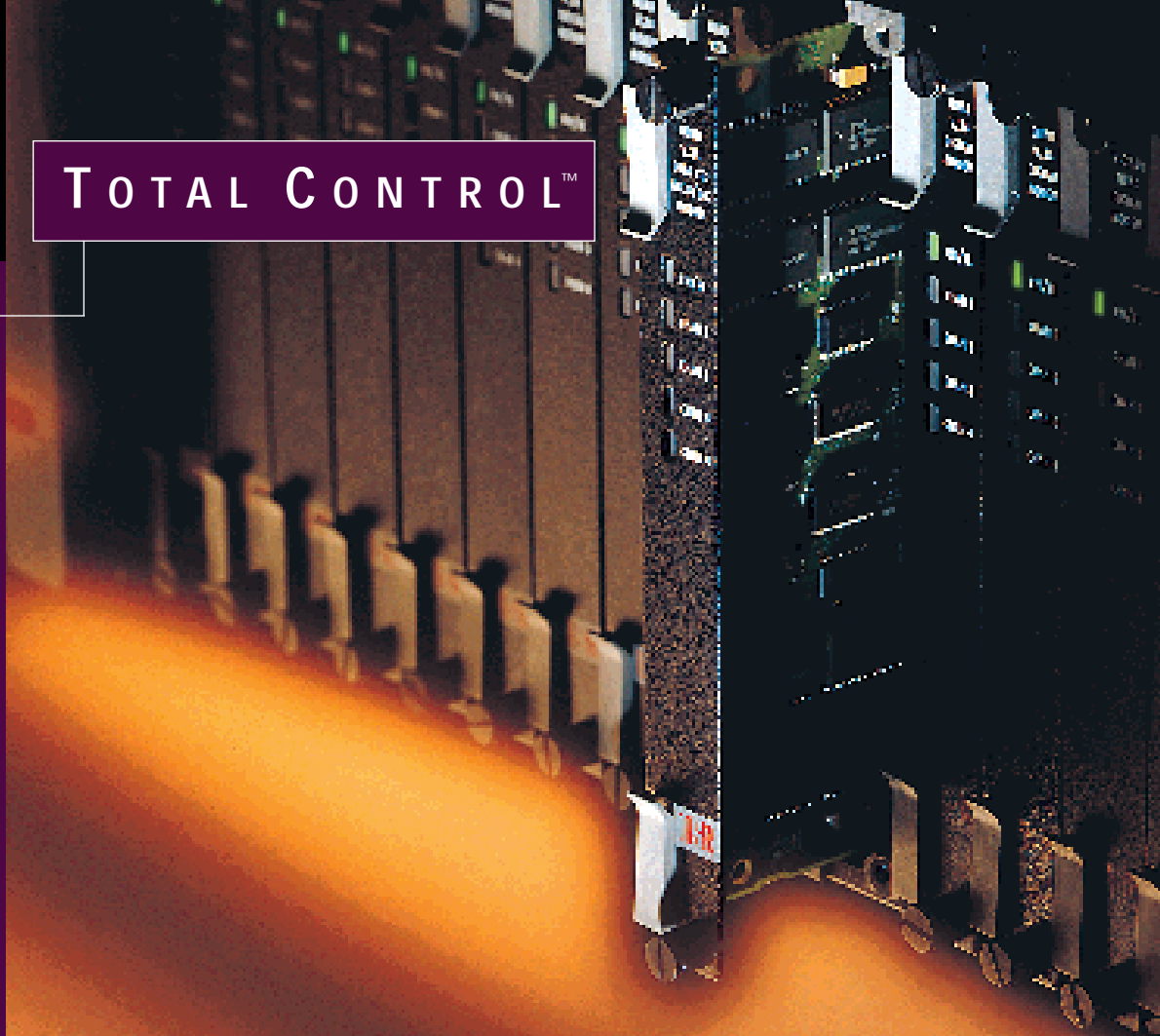


# QUAD MODEM CARD SETS

## TOTAL CONTROL™

**HIGHEST** MODEM  
PORT DENSITY



**Total Control Quad Modem Cards** include four U.S. Robotics V.Everything/V.34 modems per card, including error correction, data compression, fax and optional cellular support. The Total Control chassis is the only system available that allows up to 64 high-speed modems including all three high speed data transmission protocols and the new (optional) V.34 speeds of 31.2 and 33.6 Kbps to be rack mounted on a single chassis and managed from a single console. Communication takes place via several high speed buses over the mid-plane of the Total Control chassis. Quad Modem Cards connect to the PSTN digitally through Single or Dual T1 Application and Interface Cards. Analog transmissions are accomplished using a Quad RS-232 Network Interface Card. Optionally, this data can be directed from any Quad Modem Card to a Gateway Card which then multiplexes the data onto an Ethernet, Token Ring, Frame Relay or X.25 packet switched network.

### APPLICATIONS

**Fast transaction processing.** In point-of-sale (POS) transactions, the modem cards assure extremely fast connect, train and disconnect times to maximize the number of transactions completed and minimize time online. Typically, the modem cards can realize sub-10 second transaction times.

**Three modem types.** The Total Control Enterprise Network Hub can be configured with specific modem types for different applications. Digital, Analog, and Analog/Digital modems are available. Digital V.34 Quad modems have the ability to utilize the digital PCM signal directly from the T1. This eliminates unnecessary multiple analog/digital conversions to minimize errors, connection times, and costs. The dual mode analog/digital V.34 Quad modems are capable of accepting either a digital or analog input signal from a T1 or the POTS (Plain Old Telephone System) to provide a solution for both forms of network access. Finally, Analog V.34 Quad Modems provide a dense analog connection for analog only access. All three modem types use U.S. Robotics state-of-the-art V.34 modem technology.

**LAN access.** The Total Control Quad Modem Card sets provide LAN access for terminal server applications, routers, front end processors, network connection servers, fax servers, and X.25 for Internet and corporate networks.

## FEATURES

**Quick Connect™** completes handshake and begins transmission within 7 seconds. Other modems may take up to 25 seconds to connect.

**Fax Compatibility** is supported for V.17 at 14,400 bps; Group III; TIA/EIA 578 Class 1, and TIA/EIA 592 Class 2.0. Call detection automatically switches between data and fax calls.

**Cellular Support** (optional) provides mobile users with wireless access to the Total Control Enterprise Network Hub. Supports wireless modulations including V.42 ETC and MNP10. These two protocols represent the world's most popular and widely accepted standards.

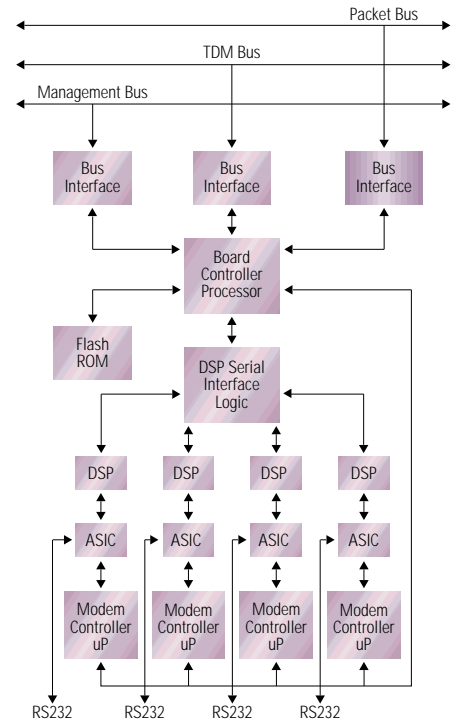
**RADIUS** (Remote Access Dial-In User Service) protocol-based security capabilities allow inbound calls to be dynamically filtered and routed to the appropriate location.

**Dial Security with Dialback** verifies authorized callers and modems prior to passing a remote originated call or initiates dialback based on device configuration.

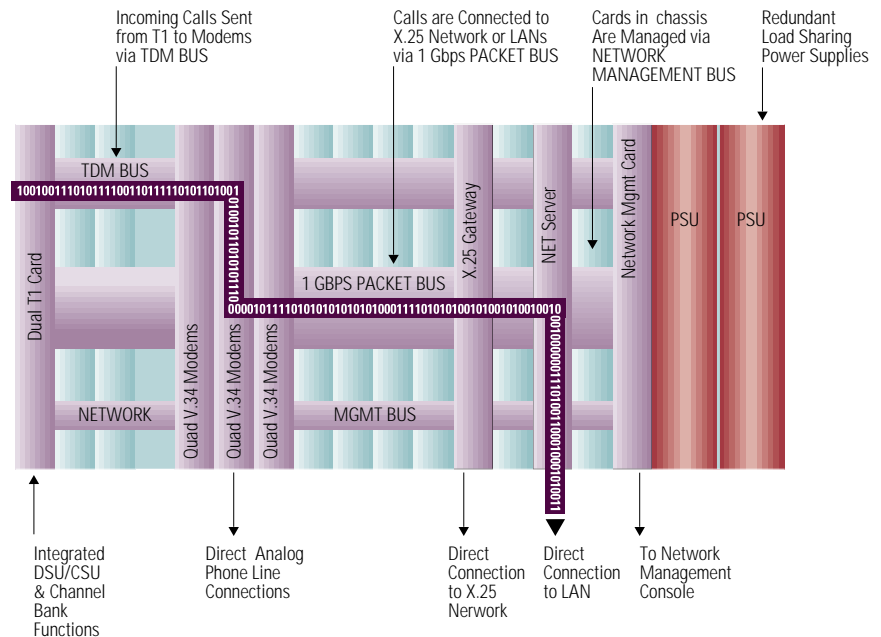
**Software Downloadable** Flash ROM preserves a customer's investment. The newest performance and capability features may be downloaded from U.S. Robotics.

**SNMP (Simple Network Management Protocol)** means users can manage all Quad Modem Cards through the Network Management Console, via U.S. Robotics' Total Control Manager/SNMP console software or any SNMP-based management host.

**Feature Groups B and D** protocols are supported when Quad Modem Cards are connected to the T1 Application Card. This lets the Modem Card access the dialed number (DNIS) or the source number (ANI) at the start of the call.



## THE TOTAL CONTROL QUAD MODEM CARD SOLUTION



**Regulatory/Agency Approvals**

FCC (Part 15, Class A, EMI/RFI)  
IC Certified

**Quad Modem Card Set Model Numbers/Part Numbers**

**SKU# Description - Quad Digital Modem Sets**

- 000843-0 Quad V.34 Digital Modem Set (w/fax)
- 000790-0 Quad V.34 Digital Modem NAC Only (w/fax)
- 001008-0 Quad V.34C Digital Modem Set with Cellular Support
- 000483-0 Quad V.32bis Plus Digital Modem Set (w/fax)
- 000386-0 Quad RS-232 10 Foot Extension Cable

**SKU# Description - Quad Analog/Digital Modem Sets**

- 000849-0 Quad Analog/Digital V.34 Modem Set (w/fax)
- 001010-0 Quad V.34C Analog/Digital Modem Set with Cellular Support
- 000386-0 Quad RS-232 10 Foot Extension Cable

**SKU# Description - Quad Analog Modem Sets**

- 000831-0 Quad V.34 Analog Modem Set (w/fax)
- 001006-0 Quad V.34C Analog Modem Set with Cellular Support

**SKU# Description - Cellular Upgrade Kits for Quad Modem Sets**

- 001071-0 Chassis Cellular Enable Upgradable Kit
- 001090-0 Total Control NMC Upgrade to V3.0
- 001093-0 Total Control Manager/SNMP Upgrade to V3.0

**Warranty**

Two-year limited warranty; factory repair or replacement.

**Services**

U.S. Robotics' customers are backed by a full range of customized technical support services including toll-free technical service phone support, product specification assistance, installation services, educational training programs; electronic information services, plus a variety of repair and service options. For more information on any U.S. Robotics contact service and support programs, call 1-800-550-7800.

**DTE Interface**

- Supports standard DTE rates up to 115,200 bps
- Asynchronous operation
- Synchronous operation (DCE supplies TxD clock)
- Physical interface 1 SCSI-II 50-pin connector (converted via supplied cable to 4 EIA RS-232 25-pin female)

**Error Correction**

- ITU-T V.42
- MNP 2-4

**Data Compression**

- ITU-T V.42 *bis*
- MNP 5

**Compatibility**

- ITU-T V.34 at 33.6 Kbps, 31.2 Kbps, 28.8 Kbps and slower speeds
- VFC at 28.8 Kbps
- V32 *terbo* at 19.2 Kbps
- ITU-T V.32 *bis* at 14.4 and 12 Kbps; 9600; 7200 and 4800 bps (symmetrical and asymmetrical full duplex)
- ITU-T V.32 at 9600 and 4800 bps
- ITU-T V.22 *bis* at 2400 bps
- ITU-T V.22 at 1200 bps
- ITU-T V.32 at 1200/75 bps
- ITU-T V.21 at 300 bps
- Bell 208B at 4800 bps (synchronous)
- Bell 212A at 1200 bps
- Bell 103 at 300 bps
- QuickConnect technology
- Adaptive Speed Leveling™ (ASL)

**Fax Compatibility**

- V.17 at 14,400 bps; Group III; TIA/EIA Class 1, and TIA/EIA 592 Class 2.0
- Call detection automatically switches between data and fax calls

**Symmetrical or Full Duplex Operation**

Efficient 2-way transfers for full duplex protocols and instantaneous response for interactive applications

**Synchronous Transmission**

From 1200 bps to 28.8 Kbps for communication with mainframes, bridges, routers or other synchronous devices

**Cellular Support (optional)**

- MNP10
- V.42ETC

**T1 Features**

- Telco T1 interface via T1 Application Card
- Modem initialization string and ANI/DNIS code storage (3 sets)
- DS0 busy out
- ANI/DNIS code dependent modem configuration
- Supports ground start and loop start supervision and E and M, Type 2
- Supports MF and DTMF addressing

**Physical Dimensions**

Application Card: 12.45 in x 6.4 in  
Application Card: 4.85 in x 6.4 in

**Power Requirements**

- 1.5A @ 5VDC
- 0.1A @ 12VDC
- 8.7 watts
- 25 BTUs

**United States Contacts**

**For Corporate Accounts and Corporate Resellers  
U.S. Robotics Corporate/Systems Division**

8100 N. McCormick Blvd.  
Skokie, IL 60076-2999  
Phone: 1-800-USR-CORP  
(708) 982-5001  
Fax: (708) 933-5800

**For Retail Distributors, Resellers, and Consumers  
U.S. Robotics Personal Communications Division**

7770 N. Frontage Road  
Skokie, IL 60077-2690  
Phone: 1-800-DIAL-USR  
(708) 676-7010  
Fax: (708) 676-7320

**Fax On Demand**

1-800-762-6163  
(708) 676-8536

**Web Site Address**

<http://www.usr.com>

**European Contacts**

**France**

U.S. Robotics, s.a.  
Cityparc, 3 Rue Lavoisier  
F-59650 Villeneuve d'Ascq  
France  
Phone: 33-20-19-19-39  
Fax: 33-20-91-99-27  
Technical Support: 33-20-19-19-59

**United Kingdom**

**BBS** 44-1734-692200

U.S. Robotics, Ltd. Systems Division  
Royal Albert House  
Sheet Street  
Windsor, Berkshire, SL4 1BE  
England  
Phone: 44-1753-831890  
Fax: 44-1753-831527

Manufactured in the U.S.A.

**U.S. Robotics**<sup>®</sup>  
The Intelligent Choice in Information Access

U.S. Robotics and the U.S. Robotics logo are registered trademarks of U.S. Robotics. All products and technologies mentioned are trademarks or registered trademarks of their respective manufacturers.

R.09.95 75-DS-101