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More connected.™

### Lifetime Limited Warranty\*\*

Your PC Card, XJACK® connector, and cables are covered for life (see *User Guide* for details).

### Customer Support

Quick access to support information is available through the 3Com BBS (bulletin board system) and 3Com Facts™ interactive fax service in Canada and the U.S. by dialing 1-408-727-7021 with your touch-tone telephone and following the recorded instructions.

To reach the 3Com BBS service in the U.S., set your modem to 8 data bits, no parity, and 1 stop bit (8,N,1), then transmit with a 53,333 baud rate and U.S. telephone number 1-847-262-6000. To reach the 3Com BBS service from outside the U.S., ask your local 3Com office or reseller for the appropriate baud rate and telephone number.

### Guaranteed Compatibility

All 3Com Megahertz modem PC Cards are guaranteed compatible with all portable computers that comply with The PC Card standard. In the unlikely event you encounter installation problems, contact our customer support department for assistance. If the problem isn't resolved to your satisfaction, you may return the product within one year of purchase for a full refund. (Refunds may not be available in some countries.)

To learn more about 3Com products and services, visit our Web site at [www.3com.com](http://www.3com.com). 3Com is a publicly traded corporation on Nasdaq under the symbol COMS.

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Printed in U.S.A. on recycled paper

### Ordering Information

3Com Megahertz 56K Global GSM and Cellular Modem PC Card

#### With XJACK connector

Single PC Card for use in:	
Europe and Asia Pacific Rim	3CXM756
Australia/New Zealand	3CXM756-ANZA
Austria	3CXM756-AT
Belgium/Netherlands	3CXM756-BENL
Canada	3CXM756-CA
China/Hong Kong/Taiwan	3CXM756-CN
Czech Republic	3CXM756-CZ
Denmark	3CXM756-DK
Finland	3CXM756-FI
France	3CXM756-FR
Germany	3CXM756-DE
Hungary	3CXM756-HU
Spain/Portugal	3CXM756-IB
Italy	3CXM756-IT
Japan	3CXM756-JP
Korea	3CXM756-KR
Latin America	3CXM756-LAT
Middle East	3CXM756-ME
Norway	3CXM756-NO
Poland	3CXM756-PL
Romania	3CXM756-RO
Russia	3CXM756-RU
South Africa	3CXM756-ZA
Sweden	3CXM756-SE
Switzerland	3CXM756-CH
U.K.	3CXM756-UK
U.S.	3CXM756-US
100-pack	3CXM756-100†

#### With cable connector

Single PC Card for use in:	
Europe and Asia Pacific Rim	3CCM756
U.S.	3CCM756-US
100-pack	3CCM756-100

Not all models are available in all areas.

† Includes one software set. Local phone adapters not included.

†† Henderson Labs, 5/99

\* Capable of receiving downloads at up to 56 Kbps and sending at up to 31.2 Kbps. Due to FCC/FIC regulations on power output, receiving speeds are limited to 53 Kbps. Actual speeds may vary. Requires compatible analog phone line and server equipment. See [www.3com.com/56k](http://www.3com.com/56k) for details.



# 3Com® Megahertz®

## 56K\* Global GSM and Cellular Modem PC Card

GSM- and cellular-capable with reliable, high-performance V.90 56K modem access worldwide



Use the 3Com® Megahertz® 56K\* Global GSM and Cellular Modem PC Card in notebooks running Windows, DOS, Mac OS, or Linux. With DynamicAccess® mobile connection manager and global, GSM, and cellular access, it's the only modem PC Card you'll need for reliable, high-performance connections the world over.

### Key Benefits

**Wired, GSM, and cellular connectivity.** Only the 3Com® Megahertz® 56K\* Global GSM and Cellular Modem PC Card lets you connect virtually anywhere, anytime—with or without a land line.

**Operating system independence.** This PC98/99-compliant design supports major operating systems for unmatched versatility and future-readiness.

**The highest V.90 throughput.** Independent testing shows that this PC Card modem transmits more data, faster, even over the noisiest phone lines. With 3Com's Exclusive Line Probing technology, it easily outperforms other V.90 modems in its class.

**Total reliability.** Delivers unmatched reliability and is backed by a lifetime limited warranty\*\*.

**Easy installation and configuration.** Intelligent Auto Install installs your PC Card in minutes, and WorldPort™ country selection software delivers single-click connections with phone lines around the world.

**DynamicAccess® technology.** Adds intelligence to PC Cards to solve IS problems with Mobile Connection Manager. Provides one-step configuration and connectivity at multiple locations.

**Guaranteed compatibility.** Compatible with all notebook PCs that comply with The PC Card Standard.

**Illuminated XJACK® connector.** Delivers easy, durable phone connections, saves users from carrying cables, and includes lights to show connection status.

\*\*See *User Guide* for details.

It pays to be connected. 3Com introduces a new PC Card that makes the most of this concept. Today and tomorrow, around town or around the globe, the newest PC Card modem from 3Com has all the features and performance you need to connect at blazing speeds over the world's wired and wireless telephone networks. With global, cellular and GSM access, the 3Com Megahertz 56K\* Global GSM and Cellular Modem PC Card pays off every time you connect, no matter where or how.

3Com's new PC Card modem, model 3CXM756, gives you two modems for the price of one. We've combined the functionality of our award-winning wired and wireless modems—the 3Com Megahertz 56K\* Global Modem PC Card (model 3CCM156B) and the 3Com Megahertz 56K\* Cellular Modem PC Card (model 3CXM556)—in one modem PC Card

that outperforms both its predecessors combined. It gives you the widest range of worldwide connectivity options available in any mobile modem at any price—and, best of all, it costs about the same as the single-purpose modems it replaces.

The new 3Com Megahertz 56K Global GSM and Cellular Modem PC Card provides global connectivity, with documentation available for all the world's major languages. PTT approvals are obtained or expected in Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Hungary, Ireland, Israel, Italy, Japan, Korea, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, United Arab Emirates, U.K., and the U.S.

# Modem

Reliable, high-performance V.90 56K modem, GSM, and cellular access worldwide

Anytime you're without a land line, simply use this PC Card with select analog cellular phones with Direct Connect Cellular, or GSM handsets with GSM Connection Manager.

GSM Connection Manager software for Windows 95 and 98 works with the Nokia cellular mobile data suite 1.2 and 2.0 and Ericsson DI 27 (provided separately by your

handset vendor) to automatically route data calls to your PC Card or GSM handset without requiring manual software reconfiguration.

## Features and Benefits

### 3Com® Megahertz® 56K® Global GSM and Cellular Modem PC Card

FEATURE	BENEFIT
<b>Versatility</b>	
International PTT approvals	Compatible with the widest range of telephone networks around the world
GSM- and cellular-capable	Allows you to communicate even when no land line is available
Operating system independence	Compatible with all major operating systems: Windows, Macintosh, Linux and DOS
PC98 and PC99 compatibility	Compliance with industry standards, for a modem that will perform as reliably in future years as it does today
Flashable tuples	Allows customization as necessary to meet specific notebook requirements
Upgradability	Ensures that the modem will retain its value and performance as new features and upgraded operating systems are introduced
<b>Unexcelled V.90 Performance</b>	
56K* connect speeds	The highest modem speed that can be achieved over standard telephone lines and switches
Exclusive Line Probing (ELP) technology for today's highest throughput	Automatically evaluates line noise and other impairments, then encodes data for the most efficient transfer given the existing line conditions. Delivers from 10 to 42 percent higher throughput than other V.90 modems** and more reliable connections—even over the worst line conditions
<b>Ease of Use and Management</b>	
Illuminated XJACK® connector	Delivers easy, durable phone connections, saves you from carrying cables, and lights up to show connection status
Simple installation	Slide-in card with simple installation Wizard gets you connected fast and trouble-free
WorldPort™ country selection software	Simply click on the appropriate country name or flag to configure your modem for use in almost any country around the world
Mobile Connection Manager	Frees mobile users from the burden of configuring and connecting manually, greatly reducing support calls and costs
GSM Connection Manager	Automatically sends data calls to your modem PC Card or select GSM handset, saving you from reconfiguring your software
Digital Line Guard	Alerts you if connecting to potentially damaging digital or PBX phone lines
Documentation available in all major languages	Makes it simple for anyone in any country to install and use the modem, without language-specific training
<b>Affordability</b>	
Low cost	Standard, cellular and GSM capabilities for a price that compares favorably to single-purpose modems
One modem for all types of connections	Eliminates the need to buy or carry separate modems as needs or travel destinations change

## Specifications—Model 3CXM756

### 3Com® Megahertz® 56K® Global GSM and Cellular Modem PC Card

#### MODEM FEATURES

V.90 56K Standard (56K\* Data/14.4K Fax)  
 XJACK® Connector with status lights  
 Exclusive Line Probing technology  
 DynamicAccess® technology  
 Worldwide connections  
 WorldPort™ software  
 Mobile Connection Manager  
 GSM Connection Manager  
 Direct-Connect Cellular (cables sold separately)  
 Speakerphone (with third-party software and compatible system)  
 Voicemail (software sold separately)  
 Caller ID (where available, software sold separately)  
 Compatible with Windows, Macintosh, Linux and DOS  
 Guaranteed Compatible with PC Card standard notebooks  
 Intelligent Auto Install  
 Flash DSP/Flash ROM  
 Software upgradable  
 Free data/fax software  
 Digital Line Guard  
 Hot-swappable

#### PRODUCT INCLUDES

56K\* global modem PC Card with XJACK connector  
 2.13m (7') phone cord  
 DynamicAccess® technology software (available in English only)  
 WorldPort software  
 Fax software (not available in all languages)  
 Auto installation/configuration software  
 Free trial offers from leading Internet and online service providers (all offers may not be available in all areas)  
 User documentation (HTML format requires Netscape Navigator 4.0 or Microsoft Internet Explorer 4.01)  
 Quick Start Guide

#### SOFTWARE COMPATIBILITY

Microsoft Windows 95  
 Microsoft Windows 98  
 Microsoft Windows NT 4.0  
 Microsoft Windows 3.1x (with Card and Socket Services version 2.1 or higher)  
 MS-DOS  
 Macintosh system 7.5.5 or higher  
 Linux

#### SYSTEM COMPATIBILITY

486 notebook or higher, compatible with PC Card standard  
 Apple PowerBook, series 190, 1400, 2400, 5300 or later

#### MODEM STANDARDS

Hayes AT command set  
 V.90 56K standard  
 V.34+  
 V.FC  
 ITU-T V.34  
 ITU-T V.32  
 ITU-T V.32bis  
 ITU-T V.23  
 ITU-T V.22  
 ITU-T V.22bis  
 ITU-T V.21  
 Bell 103  
 Bell 212A

#### FAX STANDARDS

ITU-T V.29  
 ITU-T T.30  
 ITU-T V.27ter  
 ITU-T V.21  
 ITU-T V.17  
 ITU-T Group III  
 EIA Class I  
 EIA Class 2.0

#### ERROR CORRECTION/DATA COMPRESSION

ITU-T V.42  
 ITU-T V.42bis  
 MNP levels 2-5  
 ETC  
 GSM (with included software)

#### DIALING CAPABILITIES

Tone and rotary pulse

#### OPERATING MODES

Asynchronous  
 Full-duplex  
 Automatic and manual call originate  
 Automatic and manual answer

#### PULSE DIALING RATE

10 pulses per second  
 Pulse dialing duty cycle 39/61% (U.S.) or 33/67% (U.K./Hong Kong) make-to-break ratio

#### ASYNCHRONOUS DATA RATES

Transmission rate fall-back through 300bps

#### ASYNCHRONOUS CHARACTER FORMAT

Up to 10 bits, including data, start, stop, and parity bits

#### COMPATIBLE PUBLIC SWITCHED NETWORK JACKS

RJ11W, RJ41S, RJ11C

#### TONES DETECTED

Dial, busy, ringback, and modem answer tones  
 Blind dialing based on time-out periods is available for incompatible tones

#### LINE REQUIREMENTS

Public switched telephone network  
 Public AMPS cellular telephone network  
 GSM network  
 V.90: one D/A conversion

#### RINGER EQUIVALENCE

0.001B

#### RECEIVE SENSITIVITY

-43 dBm  
 I/O connector for Media Coupler  
 15-pin locking connector

#### OPERATING ENVIRONMENT

Operating temperature  
 0°C to 70°C  
 Storage temperature  
 -2°C to 60°C  
 Altitude  
 Up to 6,000m (20,000 ft)  
 Humidity  
 10 to 90% noncondensing

#### AMPS PHONE COMPATIBILITY

(cables sold separately)  
**Ericsson** AH 200 and 300 Series, DCC Series, DH 300 Series, DF 300 Series, PD 300 Series, AH 600 Series, KF668, LX677, LX788, KH688, DF688, DH668, DH168

**Motorola** MicroTAC and StarTAC analog cellular phones

**Nokia** 252, 282, 2120, 2160, 5120, 5160, 6120, 6160, 6161, 6162

#### GSM PHONE COMPATIBILITY

Available from your handset vendor. Offers compatibility with select GSM handsets in Europe where GSM service is available, including:

**Nokia** Cellular Data Suite 1.2 and 2.0: compatible with Nokia 6110, 6190, 5110, 5190 and compatible GSM900/GSM1800/GSM1900 digital mobile phones via the 9-pin serial cable DAU-9P

**Ericsson** Mobile Office II DI 27: compatible with T18, S 868, SH 888, GF 788, CF 788, GF 788c, CF 768, CF 688, PF 768, GF 788e, CA 638, GF 768, GF 768c, GH 688, GA 628

#### PTT APPROVALS

Obtained or expected in Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Hungary, Ireland, Israel, Italy, Japan, Korea, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, United Arab Emirates, United Kingdom and United States.

For the most current list of approved countries and countries that don't require approvals see [www.3com.com/mobile/](http://www.3com.com/mobile/).