

3Com® Megahertz®



56K* Modem PC Cards

Enjoy reliable, high-performance V.90 56K modem access when and where you need it.

Features & Benefits

Standard V.90 56K* access

enables high-speed downloads and universal compatibility with V.90, V.34, and all previous ITU standards.

Exclusive Line Probing actively navigates line impairments for faster, more reliable V.90 56K connections—even over the worst line conditions.

XJACK® connector (available on all 3CX models) delivers easy, durable phone connections and saves you from carrying, and possibly losing, cables. Model 3CXM756 also lights to show connection status.

DynamicAccess® mobile connection manager delivers one-step mobile configuration and connectivity for global modem PC Cards at multiple locations—conserving IT resources and increasing productivity for mobile workers.

DynamicAccess GSM connection manager automatically configures your modem when switching between standard and GSM phone connections.

Direct-Connect Cellular gives you easy, reliable cellular access with select analog cellular phones and a separately sold cellular cable, anywhere AMPS service is available.

WorldPort™ software lets you simply select a country flag or name to instantly configure your global modem PC Card for use in more than 250 countries and regions.

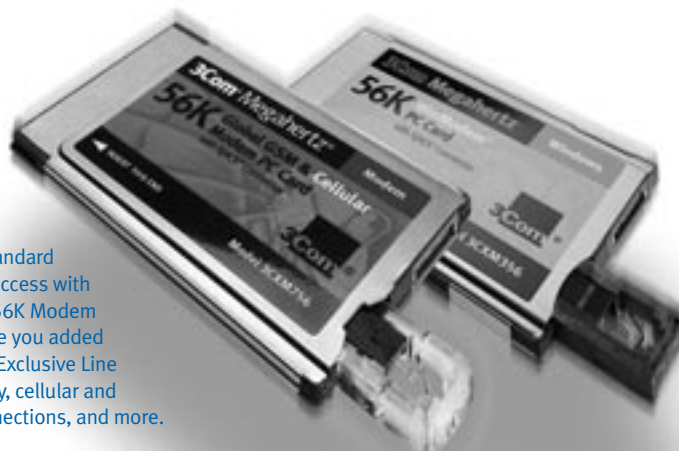
Digital Line Guard protects your PC Card from damage if connected to digital or PBX phone lines.

Intelligent Auto Install allows you to enjoy easy, plug-and-play installation in a matter of minutes.

Guaranteed Compatibility with all notebook computers that comply with The PC Card Standard.

Total reliability means your 3Com modem PC Card is backed by our Lifetime Limited warranty and unlimited technical support.

Gain more than standard V.90 56K modem access with 3Com Megahertz 56K Modem PC Cards. They give you added performance with Exclusive Line Probing technology, cellular and GSM wireless connections, and more.



3Com® Megahertz® 56K* Modem PC Cards bring you the fastest analog modem speeds available, in PC Cards you can count on year after year. They eliminate unreliable connections, sluggish downloads, narrow compatibility, harmful digital line connections, and frustrating configurations. Advanced features such as WorldPort™ country select software simplify global connections, and GSM Connection Manager streamlines wireless GSM access. So, whether you want to connect from North America or around the world, from a landline, cellular phone, or GSM handset—or all of the above—you'll find exactly what you need in this PC Card family.

Realizing the Universal Connection

Simplicity with peace of mind. 3Com's objective with the Universal Connection is to tear down any barriers between you and the most reliable connections—wherever you are. Our 56K modem PC Cards leverage constant connectivity, advanced simplicity, transparent intelligence, and future innovations. As a result, you receive superior connections, manageability and ease of use worldwide. Benefits only 3Com can offer.

Modem PC Cards

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

V.90 and Exclusive Line Probing

All our modem PC Cards support the V.90 56K standard to ensure broad compatibility. And thanks to 3Com's Exclusive Line Probing (ELP) technology, they deliver industry-leading throughput and reliability to keep you in touch and productive. ELP discovers phone line impairments and actively navigates around them for faster, more reliable modem connections—even over the worst line conditions. You spend less time online, increasing your productivity while reducing your phone bill.

DynamicAccess® Technology—One-Step Configuration and Connectivity

DynamicAccess® technologies, available on 3CXM756 and 3CCM756 models, provide added connectivity convenience and more intelligent performance.

DynamicAccess Mobile Connection Manager lets IT managers create one configuration file with all the necessary settings for a dial-up modem connection, and distribute it across the entire enterprise. Users get a fast, dependable way to get connected simply—wherever they are. IT managers get fewer headaches.

DynamicAccess GSM connection manager dynamically senses when you connect a Nokia or Ericsson GSM handset or a regular phone line and automatically sets up the proper connection. Find out more about DynamicAccess technologies at www.3com.com/dynamicaccess/mobile/.

Direct-Connect Cellular and GSM Software Support—Access Anytime, Anywhere

When you're on the road without a phone in sight, count on easy, reliable AMPS cellular and GSM wireless (available on models 3CXM756 and 3CCM756) access to keep you in touch. Simply connect your PC Card directly to select analog cellular phones and GSM handsets and enjoy wireless connectivity anywhere services are available.

Direct-Connect Cellular and GSM gives you the cleanest, most reliable wireless transmissions possible with a cellular phone by correcting errors common to cellular connections. And our Cable Sensor feature automatically configures your modem when switching between standard and mobile phone connections.

Easy Access Worldwide

If you need a global modem PC Card or one localized for a specific region, count on 3Com's WorldPort country selection software to get you connected—with a click of the mouse. Simply select the flag or name of the country you're in, and WorldPort automatically configures your modem to deliver optimum performance with local phone lines in more than 250 countries and regions.

Easy to Install, Configure, and Update

3Com Megahertz modem PC Cards practically install themselves. Intelligent Auto Install, an innovative 3Com architecture, allows your system to quickly, accurately install and configure all modem functions. A couple of clicks, and you're up and running. And when you're ready, 3Com Megahertz modem PC Cards are easy to update with flash ROM for making basic enhancements *and* flash DSP for updating your modem's main functionality simply and easily yourself.

Guaranteed Compatibility

When you purchase a 3Com Megahertz 56K Modem PC Card, you're assured compatibility with a broad range of leading operating systems and notebooks with 16- and 32-bit PCMCIA slots. In fact, you're guaranteed to be compatible with all notebook computers that comply with The PC Card Standard.

Lifetime Limited Warranty

3Com warrants your Megahertz PC Card for as long as you own it.

Higher Modem Throughput Only from 3Com

Tests performed by Henderson Communications Laboratories, an independent testing lab, prove that 3Com modems with Exclusive Line Probing (ELP) technology outperform the competition. In tests, the 3Com® Megahertz® 56K* Global GSM and Cellular Modem PC Card, model 3CXM756, achieved 10 to 42 percent higher weighted average throughput than the Xircom RealPort PC Card. Tests were conducted in accordance with procedures developed within the TIA/TR30.3 committee.

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

(Model 3CXM756, 3CCM756)

Get fast, reliable connections anywhere in the world with the 3Com Megahertz 56K Global GSM and Cellular Modem PC Card. This advanced solution combines award-winning global, cellular, and GSM technologies in today's most versatile global modem PC Card. Model 3CXM756 includes the illuminated XJACK® connector that lights to show connection status while saving you from carrying and possibly losing extra cables.

DynamicAccess Mobile Connection Manager software simplifies mobile access by letting you easily connect at multiple locations with pre-configured dial-up connections. Out of the country? WorldPort country selection software has you covered. It automatically configures the modem for use in 250 countries and regions—just select the country name or flag, and your modem is ready for use with local phone lines.

Even if there's no phone line in sight, you can still stay in touch—thanks to Direct-Connect Cellular and GSM support. Direct-Connect Cellular gives you the freedom to roam and connect through select analog AMPS

cellular phones. DynamicAccess GSM connection manager software simplifies wireless GSM connections by automatically sensing when you connect to select Nokia or Ericsson GSM wireless handsets or analog phone lines, then setting up the proper connection for you. Equally impressive, this powerful PC Card grows more valuable with age, by letting you easily update virtually any function using flash DSP or flash ROM and simple software downloads.

3Com® Megahertz® 56K* Modem PC Cards Features Comparison	3CXM756	3CCM756	3CXM356	3CCM356
Exclusive Line Probing technology	•	•	•	•
Illuminated XJACK® connector	•			
XJACK connector			•	
Cable connector		•		•
DynamicAccess® mobile connection manager	•	•		
GSM support	•	•		
Direct-Connect Cellular	•	•		
Maximized for Windows			•	•
Worldwide connections/WorldPort™ software	•	•		
Windows 95, 98, 2000 & Windows NT 4.0	•	•	•	•
Apple PowerBooks	•	•		
Linux	•	•		

All 3Com Megahertz modem PC Cards feature data/fax software, Digital Line Guard, Exclusive Line Probing technology, flash DSP, flash ROM, Guaranteed Compatibility, hot swapping, Intelligent Auto Install, Lifetime Limited warranty, and software upgradability.



3Com Megahertz 56K Winmodem PC Card

(Model 3CXM356, 3CCM356)

Are you looking for a solid modem PC Card, but don't need global capabilities? Good news, the 3Com Megahertz 56K Winmodem PC Card is the right solution for you.

This powerful Winmodem PC Card is designed to maximize the power of Windows using the V.90 56K standard. And since it's compatible with V.90, V.34, and other standards—you can communicate with most any modem on the market today. Which means you can e-mail, fax, and access the Internet at the fastest analog modem speed available. This PC Card also protects your investment with Digital Line Guard and simple software updates. And thanks to the rugged XJACK connector on model 3CXM356, you'll receive trouble-free connections without the need to carry extra cables. For ease of use, reliability, and speed, you simply can't miss with this Windows-optimized solution.



XJACK® Connector

For more than six million users, the patented 3Com® XJACK® connector is the standard for painless mobile connections. Made from high-strength, heat-resistant thermoplastics, these durable connectors withstand even the most hectic mobile lifestyle. And the new illuminating XJACK connector (available on model 3CXM756) goes a step further, illuminating to display connection status. Choose XJACK connectors and say goodbye to carrying cables, and the downtime and expense of ordering new ones.

AMPS Cellular Phone Compatibility

Separately sold AMPS cellular cables connect your cellular-capable PC Card to a wide range of analog cellular phones for wireless access. Cellular technology is always changing—affecting compatibility. Visit <http://buydirect.3com.com/> or call your local 3Com support center for current compatibility and to order the cable that's right for you. In the U.S., call 1 800 846 2233*.

Global Phone Adapters

Adapters for connecting global models 3CXM756 and 3CCM756 to local phone lines worldwide are available with your product or online at www.teleadapt.com/web/3comusr/, or call 1 408 965 1485.

Accessories

Expand your access capabilities or replace lost cables for your 3Com Megahertz 56K Modem PC Card. Find out more at <http://buydirect.3com.com/> or call 1 800 846 2233.

Specifications

3Com Megahertz 56K Modem PC Cards

Modem

Modem Speeds

All models

56 kbps*

Fax Speeds

All models

14.4 kbps

Modem Standards

All models

Hayes AT command set

V.90 56K standard

V.34+

ITU-T V.34

ITU-T V.32

ITU-T V.32bis

ITU-T V.23

ITU-T V.22

ITU-T V.22.bis

ITU-T V.21

Bell 212A

Bell103

x2 (3Com's proprietary 56K protocol)

Fax Standards

All models

ITU-T T.30

ITU-T V.29

ITU-T V.27ter

ITU-T V.21 Channel 2

ITU-T V.17

ITU-T Group III

EIA Class 1

EIA Class 2.0

Protocols

Error Correction/Data Compression

Models 3CXM756 and 3CCM756

ITU-T V.42

ITU-T V.42bis

MNP levels 2-5

ETC

Models 3CXM356 and 3CCM356

ITU-T V.42

ITU-T V.42bis

MNP levels 2-5

Operating Modes

Asynchronous

Full-duplex

Automatic and manual call originate

Automatic and manual answer

Dialing Capabilities

Tone and rotary pulse

Asynchronous Data Rates

Transmission rate fall-back through 300bps

Ringer Equivalence

0.5B

Receive Sensitivity

-45dBm

Asynchronous Character Format

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

Pulse Dialing Rate

10 pulses per second

Pulse dialing duty cycle 39/61% (U.S.)

Tones Detected

Dial, busy, ringback, and modem answer tones

Blind dialing based on time-out periods is available for incompatible tones

Line Requirements

Models 3CXM756 and 3CCM756

Public switched telephone network including global connections

V.90/x2: one D/A conversion

Public AMPS cellular telephone network

GSM network

Models 3CXM356 and 3CCM356

Public switched telephone network including global connections

V.90/x2: one D/A conversion

Compatible Public Network Jacks

RJ-11W, RJ-41S, RJ-11C

Power Consumption

Operating mode 390 mA

Sleep mode 35 mA

Physical Dimensions

Length: 85.6 mm/3.37 in

Width: 54.0 mm/2.23 in

Thickness: 5.0 mm/0.20 in

Environmental Operating Ranges

0° to 70°C/-32° to 155°F

Minimum System Requirements

Models 3CXM756 and 3CCM756

486 notebook with 50 MHz microprocessor

8 MB of RAM (16 MB for Windows NT 4.0)

Windows 98, 95, 2000, or Windows NT 4.0,

Windows 3.1x, or DOS with Card and Socket

Services Version 2.1 or higher, or Linux

Alternately, Mac OS requires 2400 Series

PowerBook or later

Mac OS 7.5.5 or higher

Models 3CXM356 and 3CCM356

486 notebook with 50 MHz microprocessor

8 MB of RAM (16MB of RAM for

Windows NT 4.0)

Windows 98, 95, 2000, or Windows NT 4.0

(Will not work in MS-DOS shell or

non-Microsoft operating system)

Ptt approvals by country

Models 3CXM756 and 3CCM756

Visit www.3com.com/mobile/ for an updated list of approved countries.

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Montreal: 514 683 3266
Ottawa: 613 566 7055
Toronto: 416 498 3266
Vancouver: 604 434 3266

3Com Latin America

Argentina (serving Argentina, Paraguay, and Uruguay): 541 312 3266

Brazil: 55 11 246 5001

Chile (serving Bolivia, Chile, and Peru): 562 240 6200

Colombia: 57 1 629 4110

Mexico: 525 201 0000

Peru: 51 1 221 5399

Venezuela: 582 267 5550

Asia Pacific Rim

Melbourne, Australia: 61 3 9934 8888

Sydney, Australia: 61 2 9937 5000

Beijing, China: 8610 68492568

Shanghai, China: 86 21 6350 1581

Hong Kong: 852 2501 1111

India: 91 11 644 3974

Indonesia: 62 21 572 2088

Osaka, Japan: 81 6 536 3303

Tokyo, Japan: 81 3 5977 3266

Toll free from Japan: 0120 31 3266

Korea: 82 2 3455 6300

Malaysia: 60 3 715 1333

New Zealand: 64 9 366 9138

Philippines: 632 892 4476

Singapore: 65 538 9368

Taiwan: 886 2 2 377 5850

Thailand: 662 231 8151 5

3Com Austria

43 1 580 170

3Com Benelux B.V.

Belgium: 32 2 725 0202

Netherlands: 31 346 58 62 11

3Com Eastern Europe/CIS

Bulgaria: 359 2 962 5222

Czech Republic: 420 2 21845 800

Hungary: 36 1 250 83 41

Poland: 48 22 6451351

Russia: 7 095 258 09 40

Slovak Republic: 421 7 317 850

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Rome, Italy: 39 6 5279941

3Com Middle East

971 4 319533

3Com Nordic AB

Denmark: 45 48 10 50 00

Finland: 358 9 435 420 67

Norway: 47 22 58 47 00

Sweden: 46 8 587 05 600

3Com Southern Africa

27 11 807 4397

3Com Switzerland

41 844 833 933

3Com UK Ltd.

Edinburgh: 44 131 240 2900

Ireland: 353 1 823 5000

Manchester: 44 161 874 1700

Winnersh: 44 1189 27 8200

Ordering Information

Product Name	For Use In...	Order Number	
3Com Megahertz 56K Global GSM and Cellular Modem PC Card with XJACK Connector	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	
	Italy	3CXM756-IT	
	Japan	3CXM756-JP	
	Korea	3CXM756-KR†	
	Latin America	3CXM756-LAT†	
	Norway	3CXM756-NO	
	Poland	3CXM756-PL	
	Romania	3CXM756-RO	
	Russia	3CXM756-RU	
	South Africa	3CXM756-ZA	
Spain/Portugal	3CXM756-IB		
Sweden	3CXM756-SE		
Switzerland	3CXM756-CH		
U.K.	3CXM756-UK		
U.S.	3CXM756-US		
Outside of U.S. (no telephone adapters)	3CXM756		
100-pack	U.S.	3CXM756-100††	
	Europe	3CXM756-100-ROW††	
	Asia/Pacific Rim	3CXM756-100-APR††	
3Com Megahertz 56K Global GSM and Cellular Modem PC Card	U.S.	3CCM756	
	100-pack	U.S.	3CCM756-100‡
		Europe	3CCM756-100-ROW‡
Asia/Pacific Rim		3CCM756-100-APR‡	
Megahertz 56K Winmodem PC Card with XJACK Connector	U.S.	3CXM356	
	100-pack	U.S.	3CXM356-100§
3Com Megahertz 56K Winmodem PC Card with XJACK Connector	Canada	3CXM356-CA	
	Latin America	3CXM356-LAT	
3Com Megahertz 56K Winmodem PC Card	U.S.	3CCM356	
	100-pack	U.S.	3CCM356-100§

Quantity Packs

Save when you buy 3Com Megahertz 56K Modem PC Cards in quantity packs. Quantity packs don't include data/fax software or phone adapters. For pricing in the U.S., call 1 800 NET 3COM. Outside the U.S., call your local sales office.

† Local phone adapters not included.

‡ Includes one software set.

§ Includes one software set; does not include data/fax software.

* Capable of receiving downloads at up to 56 Kbps and sending at up to 31.2 Kbps. Actual download speeds you experience may be lower due to varying line conditions. Maximum download speeds in Canada and the U.S. are limited to 53K, due to regulatory limits on power output. Requires compatible analog phone line and server equipment. See www.3com.com/56k/ for details.

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