



DATA SHEET

3Com® LAN+Modem CardBus PC Cards

Reliable, high-performance LAN+Modem access—in 32-bit PC Cards

Key Benefits

3Com® LAN+Modem CardBus PC Cards deliver fast access to your network, from anywhere. And because they're made by 3Com—one of the industry's leading suppliers supplier of notebook PC Cards—you can count on

reliable performance and world-class support. Our 32-bit CardBus PC Cards deliver the performance you need and keep pace with the way you do business.

Best-in-Class LAN Performance

3Com LAN+Modem CardBus PC Cards feature patented Parallel Tasking® and Parallel Tasking II performance. These innovative technologies allow our PC Cards to increase network performance and platform availability—helping to keep employees productive and enterprises profitable. What's more, they ensure best-in-class LAN performance by overlapping tasks for higher 10 and 100 Mbps LAN throughput, improving application performance and lowering CPU utilization.

Type II PC Cards require one PC Card slot and feature our patented autosensing XJACK® connector. The autosensing XJACK connector accepts both LAN and modem cables into the same single connector. Our new Type III PC Cards with integrated LAN and modem connectors provide cableless operation. This Type III form factor uses both of your vertically stacked Type II PC Card slots or a single Type III PC Card slot. What's more, the Type III PC Card features the same easy-to-use installation routine and drivers as the Type II version, making your IT staff's tasks simpler.

Clearer Modem Connections

When you need to connect to your company's LAN or the Internet from the road, enjoy faster modem access thanks to V.90 56K connections and 3Com's Exclusive Line Probing (ELP) technology. ELP discovers phone line impairments and actively navigates around them for faster, more reliable modem connections—even over sub-optimal line conditions. You spend less time online, which can increase your productivity while reducing your phone bill.

Whichever type you choose, 3Com's superior LAN technology, simple installation, and easy-to-use features will keep you calm and connected.

Type II or Type III: The Choice Is Yours
3Com offers two form factors for its PC Cards—Type II and Type III.

Effortless Worldwide Access

If you need a global modem PC Card, count on our 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 the software automatically configures your modem with local phone lines—in more than 250 countries and regions.

PC Card Desktop Management Features

Turn your PC Card into an active-network component, making your notebook PC more manageable and helping it perform better on the network.

Easy to Install, Configure, and Update

3Com LAN+Modem CardBus PC Cards practically install themselves. Intelligent Auto Install, an innovative 3Com architecture, allows your system to quickly install and configure the LAN+modem PC Card automatically. When you're ready, these PC Cards feature flash DSP for updating your PC Card's main functionality simply and easily.

Guaranteed Compatibility

When you purchase one of these PC Cards, rest assured that you're getting complete compatibility with a broad range of leading operating systems and notebooks with 32-bit PCMCIA slots. You're guaranteed compatibility with all notebook computers that comply with the PC Card Standard.

The Universal Connection

3Com's objective with the Universal Connection is to tear down any barriers between you and our reliable connections—wherever you are. Our 10/100 Mbps LAN+Modem CardBus 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.

Accessories

Ethernet Cables

Expand your networking capabilities or replace lost cables with individual 100BASE-TX, 10BASE-T, or 10BASE2 cables. To order accessories please go to www.3com.com or call (512) 434-1503.

3Com Mobile Software Solutions

For smart solutions to IT problems—and intelligent LAN performance—you want LAN PC Cards with 3Com Mobile Software. For example, Mobile Connection Manager lets IT managers create network configuration profiles once, then distribute them as needed. The user simply selects the appropriate configuration icon, such as "sales-office LAN," to set all system

configurations. Mobile Connection Manager defines the nearest printers for each location and IP settings.

For simple wireless connections, Wireless Connection Manager dynamically senses when you connect to a GSM/CDMA handset or a regular phone line and automatically sets up the proper connection.

Product Features

32-bit CardBus architecture	Card Bus architecture offers the fastest throughput available and full duplex operation to ensure true 100 Mbps performance.
Parallel Tasking II technology	Delivers higher throughput, lower CPU utilization and faster application performance due to more efficient data transfer across the CardBus.
Exclusive Line Probing	Actively navigates line impairments for faster, more reliable V.90 56K* connections—even over the worst line conditions.
XJACK Connector	Delivers easy durable connections and saves you from carrying and possibly losing cables. Available on 3CX models.
Integrated connector	Built-in LAN connector gives you another easy way to access 3Com's superior LAN connections—without specialized cables. Available on 3C3 models.
Mobile Connection Manager	Delivers one-step mobile configuration and connectivity for multiple locations—helping to conserve IT resources and increase productivity.
Wireless Connection Manager	Dynamically detects connection type and automatically configures your notebook PC when switching between GSM or CDMA handsets and your PC Card modem.
Intelligent Auto Install	Allows you to enjoy easy, plug-and-play installation in a matter of minutes.
Nway 10/100 auto-negotiation	Automatically configures your PC Card for 10 or 100 Mbps operation.
Digital Line Guard	Patented 3Com technology that protects your modem if connecting to possibly damaging digital phone lines.
Guaranteed Compatibility	Compatible with all notebook computers that comply with the PC Card Standard.
Limited Lifetime Warranty	3Com warrants your 3Com PC Card for as long as you own it.

*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.

Specifications

LAN

100BASE-TX—All models

Category 5, twisted-pair wiring with RJ-45 connector

Maximum segment length
100 m/328 ft

10BASE-T—All models

Category 3, twisted-pair wiring with RJ-45 connector

Maximum segment length
100 m/328 ft

Software Drivers

For a current list of software drivers, please visit www.3com.com

Network Management

SNMP driver agents available on the 3Com Web site at www.3com.com

Transcend® PCLink

SmartAgent® software available by order

Modem

Modem Standards—All models

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 212A

Bell 103

ITU-T V.90

ITU-T V.34 Annex 12

V.80

V8bis

x2 (3Com's proprietary 56K protocol)

Fax Standards—All models

ITU-T Group III Fax

ITU-T V.29

ITU-T V.27ter

ITU-T V.17

EIA Class 1

ITU-T T.30

Protocols

Error Correction/Data Compression—All models

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

Ringer Equivalence

0.5B

Receive Sensitivity

-45dBm

Asynchronous Data Rates

Transmission rate fall-back through 300 bps

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

Public switched telephone network including global connections

V.90: one D/A conversion

Public AMPS cellular telephone network

Compatible Public Network Jacks

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

Specifications

LAN+Modem

Minimum System Requirements—All models
 Notebook PC with an available 16-bit PC Card or 32-bit CardBus PC Card slot

8 MB of RAM (16 MB of RAM for Windows NT 4.0)
 Windows XP, Me, 2000, 98, 98 SE NDIS 5, 95 OSR 2.x, NT 4.0

Standards Conformance—All models

IEEE 802.3u (10BASE-TX)
 IEEE 802.3 (10BASE-T)
 The PC Card Standard, March 1997

Safety and Electromagnetic Conformance—All models

FCC Part 15 Class B
 FCC Part 68
 Industry Canada, CUL
 CISPR B
 VCCI 2
 C-tick
 CUL/TUV
 CE
 CISPR B Certification
 TUV Certification

Power Consumption—All models

10BASE-TX
 Modem only 175 mA
 LAN only 150 mA
 Simultaneous 300 mA
 Sleep 25 mA

10BASE-T

Modem only 175 mA
 LAN only 120 mA
 Simultaneous 250 mA
 Sleep 25 mA

Physical Dimensions

Models 3CXFEM656C
 Length: 85.6 mm/3.37 in
 Width: 54.0 mm/2.23 in
 Thickness: 5.0 mm/0.20 in

Model 3C3FEM656C

Length: 85.6 mm/3.37 in
 Width: 54.0 mm/2.23 in
 Thickness: 10.0 mm/0.40 in

Environmental Operating Ranges

0 to 70 °C/-32 to 155 °F

Ordering Information

Product Name	For Use In...	Order Number
3Com Megahertz® 10/100 LAN+56K Global Modem CardBus PC Card with Autosensing XJACK Connector	The Americas	3CXFEM656C*
	Asia/Pacific Rim, Japan	3CXFEM656C-AP
	Europe	3CXFEM656C-EU
3Com 10/100 LAN+56K Global Modem CardBus Type III PC Card	The Americas,	3C3FEM656C*
	Asia/Pacific Rim, Japan	
	Europe	3C3FEM656C-EU

*Quantity Packs Available

Save by buying 3Com LAN+56K Modem PC Cards in quantity packs. Quantity packs don't include phone plug adapters. For pricing, call 1 800 NET 3COM.



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To learn more about 3Com solutions, visit www.3com.com. 3Com Corporation is publicly traded on Nasdaq under the symbol COMS.

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