Xircom

RealPort™ Integrated PC Card Family

LAN+WAN

LAN

WAN

The Integrated PC Card
Nothing to Break. Nothing to Lose.

Get mobile.

Stay connected.

Go places.

Everything You Need in Notebook Communications Solutions: The RealPort Integrated PC Card with Built-in Connectors

Xircom breaks new ground in mobile connectivity with its patented* RealPort Integrated PC Card, the industry's first communications solution with a built-in connector system. A September 1997, InfoWorld Magazine study reported that the number one problem for PC Card users is lost or broken cables and broken pop-out jacks. Always searching for ways to make mobile communications faster and easier, Xircom is constantly redefining traditional product categories with smarter, more integrated mobile communications solutions. The RealPort Integrated PC Card family has all the features you need to connect to information in the office or on the road, anywhere in the world. One PC Card – no custom cables to lose. No pop-out jacks to snap and leave you stranded. Just plug standard RJ-45 Ethernet or RJ-11 telephone cords directly into this elegantly designed Integrated PC Card and you're ready to access information from virtually anywhere. And when you're done, just unplug the cords, close the PC Card slot on your notebook and go! Communicating via your notebook PC has never been more robust, reliable or easy. The RealPort Integrated PC Card offers increased productivity with the lowest total cost of ownership by reducing support calls and user down time, as well as eliminating costly cable replacements.

REALPORT FAMILY FEATURES AND BENEFITS

Robust Integrated Connectors
- Integrated Ethernet LAN, modem and telephone handset pass-thru connectors provide reliable cable-free connectivity
- Uses standard RJ-45 Ethernet and RJ-11 telephone cords

Easy to Use
- 16-bit and 32-bit CardBus versions available
- Forward and backward driver compatibility
- LEDs for status information at a glance
- Telephone handset pass-thru allows receipt of incoming calls on your handset without disconnecting the modem cable
- Digital Shield™ protects modem from high-current digital phones lines
- HotSwap support makes it easy to exchange PC Cards without reloading card drivers

Anytime, Anywhere Use
- GlobalACCESS™ features including extensive country approvals and CountrySelect™ software, which automatically configures modem to local dialing conventions
- GSM 900, 1800, 1900, DCS 1800, PCS 1900 and AMPS cellular-capable via a variety of popular mobile phones

Longer Battery Life
- BatterySave™ advanced power management powers down adapter into low-power sleep mode for longer battery life

High Performance
- Connects notebooks to either 10Mbps or 100Mbps Ethernet networks
- Advanced Look-Ahead Pipelining increases Ethernet throughput up to 60 percent
- Full Duplex Ethernet at 10Mbps doubles throughput in Full Duplex environments
- Supports modem speeds up to 56Kbps**
- ISDN-capable for high-speed communications (available Fall 1998)

Investment Protection
- Flash ROM-upgradable to 56K ITU standard (V.90) at no charge

Lowest Total Cost of Ownership
- Integrated PC Card reduces support calls, user down time and eliminates cable replacement
- Single units and 5, 20 and 100 unit multi-packs available

REALPORT
Integrated PC Card

Nothing to Break.
Nothing to Lose.

With the patented Xircom RealPort Integrated PC Card, communicating via your notebook PC has never been more robust, reliable or easy. Its built-in connector system eliminates the worries of lost or broken cables. All you need are standard Ethernet and telephone cords, and you're ready to access information anytime, anywhere.

1. Slide into PC Card slot.

2. Plug in standard LAN and phone cords.

3. Ready to access information in the office or on the road.
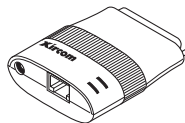
4. When finished, unplug, close door and go!

THE REALPORT INTEGRATED PC CARD ADVANTAGE

The Xircom RealPort Integrated PC Card provides the easiest, most reliable PC Card connections available. The modem and Ethernet connectors are built in, eliminating the worries of lost or broken cables. Just plug standard RJ-45 Ethernet or RJ-11 telephone cords directly into this Integrated PC Card. A telephone handset pass-thru enables you to answer incoming calls without removing the modem connection.

Xircom's cable-free Integrated PC Card form factor is the natural evolution in mobile connectivity. From Xircom's patented external Pocket Ethernet Adapter, to smaller less cumbersome internal PC Card adapters that require custom cables, to the new patented RealPort Integrated PC Card, Xircom continues to bring you the latest and most convenient solutions for all your mobile connectivity requirements!
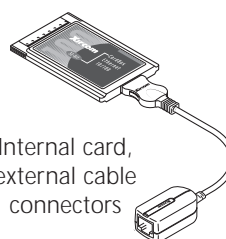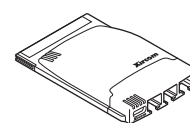
Modem Technology By microelectronics group

Global ACCESS

Lucent Technologies

FORM FACTOR EVOLUTION

Pocket Adapter

PC Card

Integrated PC Card

Fully external

Internal card, external cable connectors
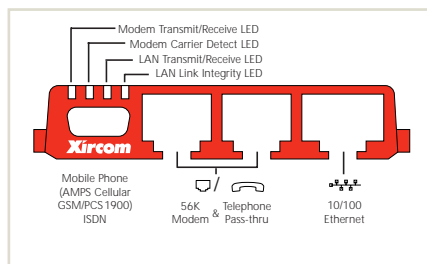
Fully internal

INCREASING CONVENIENCE

REALPORT INTEGRATED PC CARD FAMILY

The Xircom RealPort Integrated PC Card family of products solves the number one problem that customers experience with PC Cards today–lost, forgotten, or broken cable connectors and broken pop-out jacks.   RealPort Integrated PC Cards provide robust, reliable and easy-to-use solutions by integrating connectors directly into the card. With RealPort Integrated PC Cards, there are no cables to lose or moving parts to break.   The RealPort Integrated PC Card family offers a wide range of features for the varying needs of mobile users including 10Mbps and 100Mbps Ethernet LAN, 56K modem, GSM, AMPS cellular and ISDN functionality. GlobalACCESS features make it easy to connect to information from any location, anywhere in the world.

The RealPort Integrated PC Card family consists of the following products and features:

	LAN+WAN			WAN			Ethernet	
Product Name	RealPort CardBus Ethernet 10/100+Modem 56	RealPort Ethernet 10/100+Modem 56	RealPort Ethernet+ Modem 56	RealPort CardBus Modem 56–GlobalACCESS	RealPort Modem 56–GlobalACCESS	RealPort Modem 56	RealPort CardBus Ethernet 10/100	RealPort Ethernet 10/100
Model Number(s)	RBEM56G-100	REM56G-100BTX REM56G-100BC	REM56G-10BT REM56G-10BC	RBM56G (Fall 1998)	RM56G	RM56V1 (Fall 1998)	RBE-100BTX	RE-100BTX
Features:								
100Mbps Ethernet	Yes	Yes	—	—	—	—	Yes	Yes
10Mbps Ethernet	Yes	Yes	Yes	—	—	—	Yes	Yes
56K Modem	Yes	Yes	Yes	Yes	Yes	Yes	—	—
Simultaneous LAN and modem operation	Yes	Yes	Yes	—	—	—	—	—
16-bit interface	—	Yes	Yes	—	Yes	Yes	—	Yes
32-bit interface	Yes	—	—	Yes	—	—	Yes	—
Auto-negotiation of 10/100Mbps Ethernet connection	Yes	Yes	—	—	—	—	Yes	Yes
Advanced Look-Ahead Pipelining	Yes	Yes	Yes	—	—	—	Yes	Yes
Full Duplex support	Yes	Yes	Yes	—	—	—	Yes	[1]Yes
GlobalACCESS™ features	Yes	Yes	Yes	Yes	Yes	—	—	—
GSM 900, 1800, 1900, DCS 1800, PCS 1900 capable	Yes	Yes	Yes	Yes	Yes	—	—	—
AMPS cellular capable	Yes	Yes	Yes	Yes	Yes	—	—	—
ISDN capable	—	Yes	Yes	—	Yes	—	—	—
BatterySave™ advanced power management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supports MAGIC PACKET™ WAKE-UP and Wake-on-LAN power management technologies	Yes	—	—	Yes	—	—	Yes	—
Supports ACPI	Yes	—	—	Yes	—	—	Yes	—
3.3-volt operation	Yes	—	—	Yes	—	—	Yes	—
Digital Shield™	Yes	Yes	Yes	Yes	Yes	Yes	—	—
LAN LEDs	Yes	Yes	Yes	—	—	—	Yes	Yes
Modem LEDs	Yes	Yes	Yes	Yes	Yes	Yes	—	—
Flash ROM upgradable to ITU standard at no charge (V.90)	Yes	Yes	Yes	Yes	Yes	Yes	—	—
SNMP support	Yes	Yes	Yes	—	—	—	Yes	Yes
HotSwap support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Single units, and 5, 20 and 100 unit multi-packs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

RealPort LAN+WAN Products

Model RBEM56G-100BTX
32-bit
Supports both 10Base-T and 100Base-TX networks and modem speeds up to 56Kbps

Model RBEM56G-100BC
32-bit
Supports 10Base-T, 100Base-TX and 10Base-2 networks and modem speeds up to 56Kbps

Model REM56G-100BTX
16-bit
Supports both 10Base-T and 100Base-TX networks and modem speeds up to 56Kbps

Model REM56G-100BC
16-bit
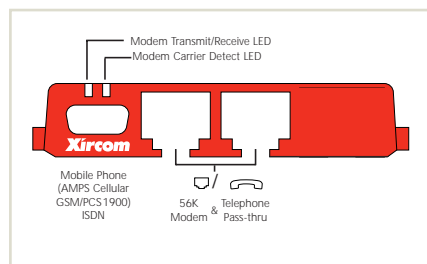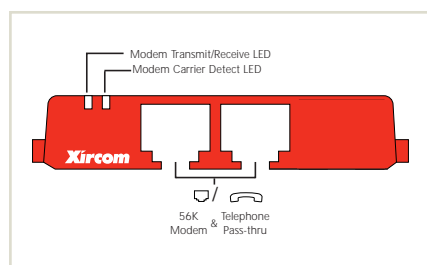Supports 10Base-T and 10Base-2 networks and modem speeds up to 56Kbps

Model REM56G-10BT
16-bit
Supports 10Base-T networks and modem speeds up to 56Kbps

Model REM56G-10BC
16-bit
Supports 10Base-T and 10Base-2 networks and modem speeds up to 56Kbps

RealPort Modem Products

Model RBM56G
32-bit
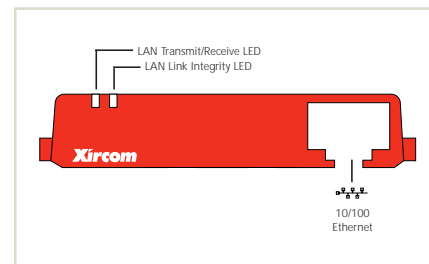Supports modem speeds up to 56Kbps

Model RM56G
16-bit
Supports modem speeds up to 56Kbps

Model RM56V1
16-bit
Supports modem speeds up to 56Kbps

RealPort LAN Products

Model RBE-100BTX
32-bit
Supports both 10Base-T and 100Base-TX networks

Model RE-100BTX
16-bit
Supports both 10Base-T and 100Base-TX networks

COMMON REALPORT SPECIFICATIONS

Common Specifications For All RealPort Integrated PC Card Models

Physical Characteristics
Type III PC Card
Size: 3.37 x 2.13 x .413 inches
          (86 x 54 x 10.5 mm)
Weight: 1.3 oz. (36 g)

Common LAN Specifications
Network Operating Systems
Novell NetWare, Microsoft Windows 95, Microsoft Windows 98, Windows NT, Windows 3.x, LAN Manager, Artisoft LANtastic, Banyan VINES, Digital PATHWORKS and IBM OS/2. NDIS and ODI drivers, and Packet driver for TCP/IP

Non-volatile RAM
LAN adapter ID and serial number

Card and Socket Services
16-bit products
Support Card and Socket Services including Award, Databook, IBM, Phoenix, SystemSoft, and VMI

32-bit products
Support Card and Socket Services including Award, Phoenix and SystemSoft

Warranty
Limited Lifetime hardware, 2 years software

Common Modem Specifications
Data Modulation
• Upgradable to V.90/K56flex up to 56000 bps
• V.34 up to 33600 bps
• V.32terbo at 19200 and 16800 bps
• V.32bis at 14400, 12000, 9600, 7200 bps, uncoded at 4800 bps
• V.32 at 9600 bps, uncoded at 4800 bps
• V.22bis at 2400 bps, V.22 at 1200 bps
• V.23 at 1200, 75 bps, Bell 212A at 1200 bps
Fax Modulation Support
• V.17 at 14400, 12000, 9600, 7200 and 4800 bps
• V.29 at 9600, 7200 and 4800 bps
• V.27ter at 4800 and 2400 bps
Fax Support
• Group 3, EIA/TIA; Class I and Class II
Error Control
• V.42/MNP Levels 2-4
Data Compression
• V.42bis (4:1) or MNP Level 5 (2:1)
Command Sets
• Hayes, Microcom compatible AT commands
Non-volatile RAM
• 1 user-definable profile; up to 2 thirty-six digit telephone numbers, and serial number

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What the press and analysts are saying about the Xircom RealPort Integrated PC Card

Xircom's RealPort Integrated PC Card solution has raised the bar on what mobile professionals will expect from their communications products when working in the office or on the road. Xircom has set an intense pace with this integrated solution.

-Tim Bajarin, President, Creative Strategies

Imagine 56K speed from your hotel without the tiresome tangle of adapter cables...sounds like Xircom's sturdy new Type III PC Card.
-PC Magazine, May 19, 1998

Dongle woes can be a thing of the past with Xircom's RealPort PC Card line.
-PC Portables, June 1998

Xircom's RealPort Ethernet 10/100+Modem 56 combines Ethernet and phone ports with a sleek Type III PC Card form, making dongles a thing of the past.
-Mobile Computing & Communications, June 1998

Xircom's RealPort PCMCIA Card is the best idea to come along in laptop communications in years.
-Teleconnect, June 1998

Dongle haters of the world, rejoice. Xircom Inc. will unveil a PCMCIA card with integrated ports that allows users to plug cables right into the unit without having to worry about connectors or other easily broken parts.
-PC Week Online, March 23, 1998

RealPort PC Cards stand out in a crowd—not because of the functions they provide; because of their form factor.
-Andrew Seybold's Outlook, April 30, 1998

The RealPort Integrated PC Card addresses two major customer needs. It solves the problems users have with cables by integrating the connectors directly into the card and it continues to serve international travelers by providing global features and support.
-Ernie Raper, Senior Market Analyst, VisionQuest

Xircom has a solution for the travel-weary customer who constantly fumbles with cables and connectors when on the road. The RealPort Ethernet 10/100+Modem 56 is the first in a family of PC Cards that integrates the connector in the card and eliminates the need for cables.
-Computer Reseller News, April 13, 1998

Call it the anti-X-jack in a Type III jacket. Xircom's new RealPort incorporates a V.90 modem coupled with a 10/100Mbps Ethernet card that doesn't need any dongles.
-Boot Online, March 30, 1998

Xircom Inc.'s RealPort Integrated PC Card line gets rid of dongles and connector cables, which in turn eliminates the top complaint among laptop users—lost or broken cables. What more could a road warrior ask for?
-InternetWeek, March 30, 1998

Forget your dongles, c/mon get happy, Xircom's ready for a brand new day...Every now and then I meet a PC Card technology advance that takes me by surprise...an idea so seemingly simple you can't help but exclaim: 'Why hasn't someone already done this?' In the matter of taking the PC Card form factor to its next level, Xircom has done it...eliminating the need for dongles...
-Portable Computing, July 1998

The RealPort Integrated PC Card is a breakthrough product because it solves the nagging problem of carrying around PC Card cables, which often break or get lost. You have to see it on the Xircom web site to believe it—this is the way mobile connectivity ought to work.
-Gerry Purdy, President and CEO, Mobile Insights, Inc.