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GeoPort Telecom Adapter: Description (11/95)

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TOPIC -----

This article describes the GeoPort Telecom Adapter.

DISCUSSION -----

OVERVIEW

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GeoPort is a hardware and software communications architecture that has been optimized for computer-telephony integration. It has three main attributes:

- It lets any GeoPort capable computer connect to any telephone (analog or digital, public or private), anywhere in the world. This means that users can connect not just to POTS (analog) lines, but also to the PBX lines typically found in most office environments. Note, the Telecom Adapter does not support digital phone systems, only analog.
- Once connected, it supports an arbitrary number of independent data streams up to a total bandwidth of 2MB/second.
- Unlike traditional asynchronous data communications (such as AppleTalk), GeoPort also supports isochronous data streams (such as real-time data like voice and video), and provides the real-time Application Program Interfaces (APIs) necessary to hide the implementation details (such as which DSP and real-time OS) from both the recipient and the sender of the real-time data.

Examples of Use -- Telephone Applications

- Auto dialing from within an application
- Auto call logging and tracking for account billing purposes

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- Call screening and filtering (send some calls directly to voice mail)
- Send and receive a fax over a digital (PBX) line
- Voice and video conferencing -- with multiple users
- One phone number for voice mail, fax, or data connection
- Remote retrieval of email, voice mail, and fax -- from any telephone in the world
- Low cost fax-back machine
- Simultaneous voice and data, using any protocol (such as VoiceSpan or Radish)
- Software upgradeable "modem"
- Echo-canceled speaker phone

THE GEOPORT TELECOM ADAPTER

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The GeoPort Telecom Adapter gives you access to one of your Macintosh Quadra 660AV, Quadra 840AV, and Power Macintosh family, except the Power Macintosh 5200/75 LC, Performa 5200 and 6200 (6200 in Europe only), built-in features: a 14.4 kbps (kilo bits per second) modem that uses the GeoPort technology and which includes fax send and receive capabilities.

The GeoPort Telecom Adapter serves as a line interface to standard (analog) telephone lines, and combined with the Quadra 660AV and Quadra 840AV computers' on-board Digital Signal Processor (DSP), it is capable of sending or receiving data at up 14.4 kbps and faxes at up to 9600 bps (bits per second) utilizing the bundled Apple Express Modem/Fax software. The DSP is part of the PowerPC chip itself.

The Apple Express Modem and Express Fax Software is included with the GeoPort Telecom Adapter and supports the same interfaces currently used in conjunction with the PowerBook Express modems. The data/fax transmission standards supported by the GeoPort architecture are listed below.

Data/Fax Transmission Standards Supported*

- Command Set
Extended Hayes AT command set

Begin_Table

- Data communications standards
- | | |
|----------------|----------------|
| 14400 | CCITT V.32 bis |
| 9600, 4800 bps | CCITT V.32 |
| 2400 bps | CCITT V.22 bis |
| 1200 bps | Bell 212A |

1200 bps	CCITT V.22
300 bps	CCITT V.21
300 bps	Bell 103

- Group 3 Fax communications standards
2400, 4800 bps CCITT V.27 ter
7200, 9600 bps CCITT V.29

End_Table

- Error control
Full CCITT V.42 compliance
MNP Classes 2-4
- Data compression
CCITT V.42 bis (up to 4:1 compression)
MNP Class 5 (up to 2:1 compression)

NOTE: The preceding standards are supported by the GeoPort architecture built into the Macintosh Quadra 660AV, Quadra 840AV, and Power Macintosh except the Power Macintosh 5200/75 LC, Performa 5200 and 6200 (6200 in Europe only).

What's in the box

The GeoPort Telecom Adapter, "Getting Started With Your GeoPort Telecom Adapter" manual, the "Express Fax/Modem User's Guide", a length of telephone cord, and a floppy disk containing the Express Modem/Fax software.

Adapter Models

This table lists the ordering information for GeoPort adapter models, which systems to use them with, and which versions to use outside the United States:

Begin_Table

Model	System	International
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M1694LL/A	Quadra 660 AV and 840 AV	NO
M1694LL/B	Quadra 660 AV and 840 AV	YES
M3127LL/A	Power Macintosh	YES

End_Table

Part numbers mentioned in this article are accurate as of this writing. Before ordering, verify that they are still correct as they are subject to change.

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Article Change History:

- 03 Nov 1995 - Added GeoPort capable to second paragraph.
- 26 Sep 1995 - Added that Telecom Adapter does not support digital systems.
- 07 Jun 1995 - Added information on Power Macintosh 5200/75 LC.

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