Press Release

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Subject: :

RATOC Systems,Inc announces the New FireWire/IEEE1394 storage products full lineup.

RATOC Systems, Inc.(Osaka Japan) and *RATOC Systems International, Inc.*(SanJose, USA) have been shipping FireWire/IEEE1394 Host adapter products such as CardBus PC Card and PCI board to world wide market since December'98. These products are first, best selling FireWire/IEEE1394 host adapter products for both Windows PC and MacOS. Also these products are now getting the pole position of de facto standard of FireWire/ IEEE1394 host adapter products. At this COMDEX/Fall 2000, the company announces they will release new FireWire/IEEE1394 Storage products lineup as follows.

1．*FireREX1* FireWire/IEEE1394 to Ultra-SCSI exchange adapter.

Allows hooking up the existing SCSI storage to FireWire/IEEE1394 port.

Allows true Plug and Play for the existing SCSI storage device.

No SCSI Cable required, just attach it to SCSI-II Connecter.

Ten times faster than USB-SCSI Exchange.

Two 400Mbps FireWire/IEEE1394 ports, support Daisy Chain.

2．*FireREX-CW1210* Desktop External CD-RW burner.

Fast, 12X write, 10X rewrite and 48X playback.

Support 'Burn Proof' technology, free from 'Data under run Error'.

Two 400Mbps FireWire/IEEE1394 ports, support Daisy Chain.

3．*FireREX-CW84* Portable CD-RW Burner.

Fastest Portable! 8X write, 4X rewrite and 24X playback.

Compact, ultra thin(20mm) and ultra light-weight(480g).

Two 400Mbps FireWire/IEEE1394 ports, support Daisy Chain.

4．*FireREX-HD40* Desktop External HDD.

High performance desktop FireWire/IEEE1394 external HDD, Read/Write 28MB/Sec.

Include FireWire/IEEE1394 to DMA/66 exchange technology.

Two times faster than FireWire/IEE1394 to PIO4/EIDE model.
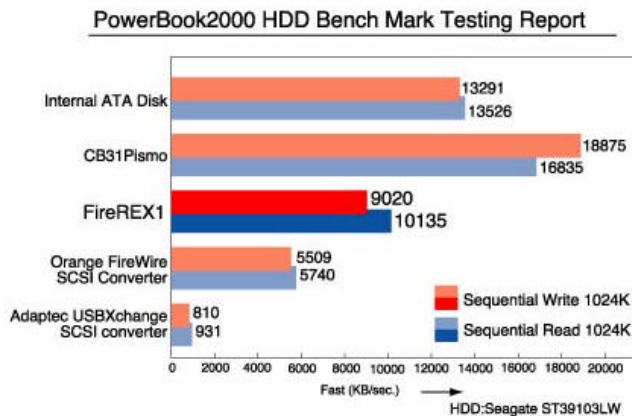
Products features

1. FireREX1

FireREX1 is developed to hook up SCSI Storage device to FireWire/IEEE1394 port. It converts FireWire/IEEE1394 signal and protocol to SCSI signal and protocol with the chip set and firmware. FireREX1 brings various benefits and convenience to the SCSI storage devices owners.

The Key benefits and main features of *FireREX1* are:

(1) Key benefits.

- No more thick, heavy and hard SCSI cable. It allows thin, light and soft cable.
- No more system shut off, Power off, Power on and restart when add/remove storage devices. It allows true Plug & Play, Hot plugging and removal.
- Almost ten times faster than USB-SCSI Exchange. Almost two times faster than the competitor's product.

PowerBook2000 HDD Bench Mark Testing Report

(2) Enables easy handling like a FireWire/IEEE1394 Device.

- Supports two FireWire/IEEE1394(6P) 400Mbps ports. Allows FireWire/IEEE1394
  Daisy Chain.
- Supports Ultra-SCSI up to 20MB/Sec data transfer on SCSI bus.
- Supports Synchronous transfer, Disconnection/Reconnection.
- Supports SBP2 ORB/CDB command set.
- Includes active Ultra SCSI terminator.

(3) Compatibility and System requirement.

- IEEE1394, I-Link Enabled WindowsPC.
  - Windows98 Second Edition(Windows update required), WindowsMe,
    Windows2000.
  - Works with Windows standard SBP2 driver and HDD,CD drivers.
- FireWire Enabled Apple PowerMac, PowerBook.
  - MacOS9.0.4 or later. Apple FireWire 2.4, 2.5 or later.
- SCSI device.
  - High density 50P female SCSI-2 connector.
  - Term-Power output capability.
  - Single-End interface.
  - Supports only storage device.
    Hard Disk Drive, CD-ROM Drive, CD-RW burner, MO Drive,
    Removable HD(Jaz, ORB) Drive.

(4) Restrictions.

- FireREX1 Firmware(Rev.1) does not support:
  - SCSI devices in Daisy Cahain.
  - LUN. Dose not support PD drive or CD-ROM Auto-changer
  - SCSI Printer Command set.
  - SCSI Scanner Command set except WindowsMe WIA.

(5) Warranty.

- Long time 5 years.

(6) Bundled software.

- Radialogic StorageMaster 1.8.4 for MacOS.
    FireWire HDD,CD,MO driver and formatting, partitioning utility.
- REXFMT 1.0 for Windows
    IEEE1394 HDD, MO formatting, partitioning utility.
- SCSI Configuration utility
  *** FirmWare Update utility and updated FirmWare will be available in March 2001.

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2. FireREX-CW1210

FireREX-CW1210 is a high speed (12X Write, 10X rewrite, 48X playback) desktop external CD-RW burner. It has high speed 400Mbps FireWire/IEEE1394 port and enables true Plug and Play, Hot swapping and FireWire/IEEE1394 Daisy Chain with only one thin, soft cable. It is free from troublesome SCSI-ID setting, Termination setting and System shut off/restart. The drive supports Brand New *Burn Proof* technologies. It prevents miss writing caused by insufficient data transfer rate.

The Key features are:
 - High speed 12x Write, 10X Rewrite and 48 X Playback.
 - Supports *Burn Proof* Technologies.
 - Supports FireWire/IEEE1394 Plug & Play and hot-swapping.
 - Supports two FireWire/IEEE1394(6P) 400Mbps port for Daisy Chain.
 - Includes Adaptec Toast 4.1.1 for MacOS.
 - Includes Adaptec Easy CD Creater 4.1.1 and Direct CD 4.1.1 for WindowsPC.
 - System requirement
     - PowerMac/PowerBook/iMac DV/iBook with FireWire port running
       MacOS9.0.4/FireWire 2.4 or later.
     - Windows PC with IEEE1394 port running Windows98SE(Windows update
        required), WindowsMe or Windows2000.
 - Supported Writing modes:
         CD-ROM,CD-DA(Audio CD), CD-ROM/XA, Audio combined CD-ROM
         CD-I, CD-I ready, CD Bridge, Video CD, CD-Extra, CD-R/W and CD-Text,
          ISO9660, Photo CD.
   - Supported Playback modes:

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CD-ROM,CD-DA(Audio CD), CD-ROM/XA, Audio combined CD-ROM

CD-I, CD-I ready, CD Bridge, Video CD, CD-Extra, CD-R/W and CD-Text,

ISO9660, Photo CD.

- Supported Writing methods:

Disc-at-Once, Session-at-Once, Track-at-Once, Multi-session,

Packet-Writing.

3. FireREX-CW84

FireREX-CW84 is a fastest portable (8X Write, 4X rewrite, 24X playback) external CD-RW burner, also very thin(20mm) and light(480g, 1lbs). It has high speed 400Mbps FireWire/IEEE1394 port and enables true Plug and Play, Hot swapping and FireWire/IEEE1394 Daisy Chain with only one thin, soft cable. It is free from troublesome SCSI-ID setting, Termination setting and System shut off/restart.

The Key features are:
 - High speed 8x Write, 4X Rewrite and 24X Playback.
 - Supports FireWire/IEEE1394 Plug & Play and hot-swapping.
 - Supports two FireWire/IEEE1394(6P) 400Mbps port for Daisy Chain.
 - Includes Adaptec Toast 4.1.1 for MacOS.
 - Includes Adaptec Easy CD Creater 4.1.1 and Direct CD 4.1.1 for WindowsPC.
 - System requirement
     - PowerMac/PowerBook/iMac DV/iBook with FireWire port running
       MacOS9.0.4/FireWire 2.4 or later.
     - Windows PC with IEEE1394 port running Windows98SE(Windows update
       required), WindowsMe or Windows2000.
 - Supported Writing modes:
        CD-ROM,CD-DA(Audio CD), CD-ROM/XA, Audio combined CD-ROM
        CD-I, CD-I ready, CD Bridge, Video CD, CD-Extra, CD-R/W and CD-Text,
        ISO9660, Photo CD.

- Supported Playback modes:

    CD-ROM,CD-DA(Audio CD), CD-ROM/XA, Audio combined CD-ROM

    CD-I, CD-I ready, CD Bridge, Video CD, CD-Extra, CD-R/W and CD-Text,

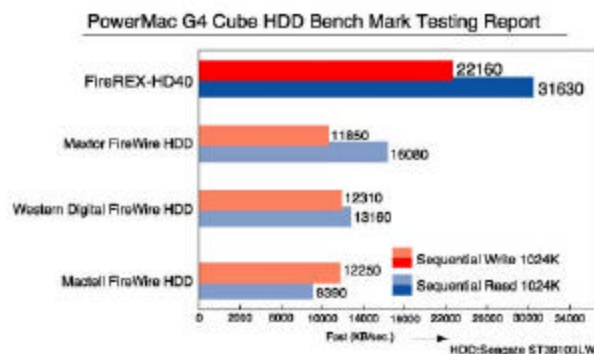   ISO9660, Photo CD.

- Supported Writing methods:

    Disc-at-Once, Session-at-Once, Track-at-Once, Multi-session,

    Packet-Writing.

4. FireREX-HD40

FireREX-HD40 is a high performance (28Mb/Sec. Read, 28Mb/Sec. Write) external
FireWire/IEEE1394 HDD which includes FireWire/IEEE1394 to UDMA/66 exchange
technology. And almost two times faster than current existent FireWire/IEEE1394 HDD.
It has high speed 400Mbps FireWire/IEEE1394 port and enables true Plug and Play, Hot
swapping and FireWire/IEEE1394 Daisy Chain with only one thin, soft cable. It is free from
troublesome SCSI-ID setting, Termination setting and System shut off/restart.
The Key features are:
- High performance 28Mb/Sec. Sustained Read and 28Mb/Sec. Sustained Write.
- Includes large capacity(40GB) and High speed(7200rpm) HDD.

PowerMac G4 Cube HDD Bench Mark Testing Report

- Supports FireWire/IEEE1394 Plug & Play and hot-swapping.
- Supports two FireWire/IEEE1394(6P) 400Mbps port for Daisy Chain.
- Includes Radialogic StorageMaster 1.8..4 FireWire HDD utility for MacOS.
- Include REXFMT 1.0 IEEE1394 HDD formatting, partitioning utility for Windows.

- Fully compatible with Windows SBP2 and HD.sys driver.
- System requirement
   - PowerMac/PowerBook/iMac DV/iBook with FireWire port running
     MacOS9.0.4/FireWire 2.4 or later.
   - Windows PC with IEEE1394 port running Windows98SE(Windows update
     required), WindowsMe or Windows2000.

Pricing and Availability

FireREX1, FireREX-CW1210 are already available in US, Europe, Asia and Japan. Other products will be available in January, 2001 in US, Europe, Asia and Japan.
 The estimated street price in US are US$109 to US$99.95(FireREX1), US$399.95 (FireREX-CW1210).

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Company profile.

RATOC Systems, Inc was founded in 1983. The company has 10 years experience of PC Card(PCMCIA products.) business, developing hardware and software, manufacturing, sales to both retail and OEM market in Japan. They design original ASIC for PC Card, hardware and develop Device Driver, utility and application software for DOS,Windows and MacOS market. The company have shipped over half million PC Cards and 0.3 million PCI board products. The company is famous in Japan as one of leading PC Card company, also is a member company of PCMCIA, JEIDA, PCI SIG, USB IF, CFA and SSFDC forum, and all products are compliant these standards. The company founded the subsidiary company in USA in February '99 and started to sell to worldwide market.