

## Press Release

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**Subject: :**

**RATO Systems, Inc** announces the company are shipping FireWire/IEEE1394 hardware/software full lineup solutions for Laptop computer.

**RATO Systems, Inc.**(Osaka Japan) and **RATO Systems International, Inc.**(SanJose, USA) have been shipping FireWire/IEEE1394 CardBus PC Card to world wide market since December'98. These products are first and best selling FireWire/IEEE1394 PC Card host adapter products and now getting the pole position of de facto standard of FireWire/IEEE1394 host adapter products. The company has two product line, the first one (**CBFW1**) is for Windows98/2K laptop market, the second one (**CBFW2**) is for Apple PowerBook market.

Also the company announces at this COMDEX/Fall'99 they will release new hardware and software solutions for IEEE1394 Industrial/Laboratory applications in the first Quarter of 2000.

1. New FireWire/IEEE1394 host adapter CardBus PC Card **CBFW3**.

-Unique dongle less monocock frame with two 6P FireWire/IEEE1394 port, one Cable Power Jack. You can plug it into TYPE-II PC Card socket.

-1394-1995,1394.a compatible, supports 400Mbps data transfer.

-OHCI1.0 and PC Card standard 7.0 compliant.

-PHY Repeater function is always active at Laptop is in power down mode (cable power required).

-Provide Class\_1 cable power through IEEE1394 connector (Power Adapter required).

-Compatible with Windows98, Windows98SE, Windows2000 and MacOS8.6/9.

2. New hardware solutions for Industrial/Laboratory application.

-IEEE1394/Optic Fiber transceiver .

This product expands IEEE1394 cable limitation (4.5m/15ft) up to 100m/333ft with Optic Fiber technology and provides the solution in Robot eye, Remote sensing

applications.

3. New IEEE1394 software library for Industrial/Laboratory application.

- Linear CCD camera client driver and library for Windows98/98SE/2K and MacOS8.6/9.
- Linear CCD camera capture Plug-in driver for Adobe Premiere and Photoshop.

4. New FireWire/IEEE1394 to Ultra-SCSI converter FireREX-S1.

- Two 6P FireWire/IEEE1394 port and one Ultra-SCSI 50p High-density connector are available.
- 1394.a compatible up to 400Mbps.
- Up to 20MB/Sec. Data transfer on Ultra-SCSI bus.
- Small Mini-DV tape size.
- No external power required, operates with Cable power.
- Just fit for Ultra-SCSI external Hard Drive, MO, ORB and removable drive.
- MacOS8.6/9 or Windows98 Second Edition required.

# ***Products features***

## ***1. CBFW1***

***CBFW1*** is developed for Windows98 Laptop, has been shipping since the middle of December'98 and it is based on latest IEEE1394 hardware, software architecture and technologies. And provides the good connectivity with DVCAM, IEEE1394 device and Digital Home Audio/Video Equipment to Windows98 Laptop user. The company usually contact to Japanese DVCAM manufacturers (SONY, Panasonic, Canon, JVC, SHARP....) to continue compatibility testing. Also CBFW2 is compatible with Windows98 Second Edition and Windows2000.



The main features of ***CBFW1*** are:

- (1) Guarantee High performance.
  - OHCI 1.0 compliant architecture Link layer chip.
  - Supports totally 13 DMA ch.( include isochronous 4ch. Asynchronous 2ch.)
  - Supports Physical DMA and DMA Context processing engine.
  - These DMA engine reduces driver software overheads and provide high performance data transfer capability, multi channel isochronous transfer and large size SBP2 data packet.
  - 400Mbps 2ports PHY chip.
  - Fully support the backward compatibility with 1394.1995 device.
- (2) Guarantee quality.
  - Ready for PCI Power Management 1.0, CardBus Power management 1.0 and ACPI.
  - Includes PMCR(Power Management Capability Registers) inside.
  - Fully compliant PC Card standard 7.0 CardBus specifications.

Electrical --- CardBus 3.3V bus buffer, control signals,

Physical--- Typell,

Metaformat --- includes IEEE1494 Tuple.

– 5 years warranty PC Card (except dongle, cable ).

(3) Guarantee user friendly feature.

- Provide Two IEEE1394 ports(up to 400Mbps each) and optional cable power jack.

If necessary, simply add optional Cable Power Adapter(Class\_1, DC12V/1.5A).

(4) Compatibility.

- Windows98, Windows98 Second Edition, Windows2000.

-CardBus enabled PC Card Type-II socket required.

– DVCAM (Tested in our lab.)

SONY

DCR-TRV5/5E, DCR-TRV-7,DCR-TRV-9, DCR-TRV10,DCR-TRV110,

DCR-TRV310K,DCR-TRV900,

DCR-PC1,DCR-PC2,DCR-PC3,DCR-VX1000

DVMC-DA1(Media Converter)

Panasonic

NV-C1,NV-C2,NV-C3,NV-DC100,NV-DJ100,NV-DS9

Canon

Optura, Elura, Vistula, ZR, XL-1

JVC

GR-DVX7, GR-DVM50U, GR-DVM70U

- Digital Still Camera

SONY DKC-FP3

(5) Bundled software.

-SONYDVCR.SYS DVCAM client driver for Windows98.

-Ulead VideoStudio3.0/DV non-linear video editing software.

-RSDVCAP.exe Video capture, preview and export application software.

-RSDVStill.exe Still image capture application software.

-CompressAVI.exe DV-video format file conversion software.

-Premire5,1LE will come with the box ( available in 1Q'00 ).

For more information, please access to

<http://www.ratocsystems.com> or <http://www.rexpccard.co.jp/english/products/>

## 2. CBFW2

**CBFW2** is developed for Apple PowerBook and MacOS8.6, has been shipping since the middle of June'99 and it is based on latest FireWire(IEEE1394) hardware, software architecture and technologies. And provides the good connectivity with DVCAM, FireWire device and Digital Home Audio/Video Equipment to PowerBook user. The company usually contact to Japanese DVCAM manufacturers (SONY, Panasonic, Canon, JVC, SHARP....) to continue compatibility testing.



The main features of **CBFW2** are:

(1) Guarantee High performance.

- OHCI 1.0 compliant architecture Link layer chip.
- Supports totally 13 DMA ch.( include isochronous 4ch. Asynchronous 2ch.)
- Supports Physical DMA and DMA Context processing engine.
- These DMA engine reduces driver software overheads and provide high performance data transfer capability, multi channel isochronous transfer and large size SBP2 data packet.
- 400Mbps 2ports PHY chip.

Fully support the backward compatibility with 1394.1995 device.

(2) Guarantee quality.

- Ready for PCI Power Management 1.0, CardBus Power management 1.0 and ACPI.
- Includes PMCR(Power Management Capability Registers) inside.

- Fully compliant PC Card standard 7.0 CardBus specifications.

  - Electrical --- CardBus 3.3V bus buffer, control signals,

  - Physical--- Type-II,

  - Metaformat --- includes IEEE1494 Tuple.

- 5 years warranty PC Card (except dongle, cable ).

(3) Guarantee user friendly feature.

- Provide Two FireWire ports (up to 400Mbps each) and optional cable power jack.

  - If necessary, simply add optional Cable Power Adapter (Class\_1, DC12V/1.5A).

(4) Compatibility.

- PowerBook G3/233, G3/250, G3/266, G3/292, G3/300, G3/333, G3/400

- MacOS8.6 or later.

- QuickTime4.0

- FireWire 2.1 or later.

- Video Editing software.

  - Apple Final Cut Pro, Adobe Premiere5.1B, Digital Origin EditDV 1.6.1

- DVCAM (Tested in our lab.)

  - SONY

    - DCR-TRV5/5E, DCR-TRV-7,DCR-TRV-9, DCR-TRV10,DCR-TRV110,

    - DCR-TRV310K,DCR-TRV900,

    - DCR-PC1,DCR-PC2,DCR-PC3,DCR-VX1000

    - DVMC-DA1(Media Converter)

  - Panasonic

    - NV-C1,NV-C2,NV-C3,NV-DC100,NV-DJ100,NV-DS9

  - Canon

    - Optura, Elura, Vistula, ZR, XL-1

  - JVC

    - GR-DVX7, GR-DVM50U, GR-DVM70U

- Digital Still Camera

  - Kodak DCS660, DCS620, DCS560, DCS520,DCS330,DCS315

  - Canon D2000, D6000

  - Nikon D1

- FireWire Storage Device.

  - VST FireWire Hard Disk

  - Lacie FireWire Hard Disk

  - MacTell FirePower Hard Disk

  - Yano FireWire Hard Disk, MO drive.

SONY Spresa FireWire CD-RW.

(5) Bundled software

- REX-CBFW Driver (OHCIFWIM)
- REX-CBFW Enabler
- Apple FireWire Support 2.1 or later
- Apple QuickTime 4.0
- EditDV 1.6.1 45days trial version.
- Adobe Premiere5.1c bundled box will be available in 1Q'00.

For more information, please access to

<http://www.ratocsystems.com>

<http://www.rexpccard.co.jp/english/products/>

## ***Pricing and Availability***

**CBFW1** and **CBFW2** are already available in US, Europe, Asia and Japanese retail market. Other products will be available in 1Q'00.

The estimated street price in US is US\$199(CBFW1) and US\$149(CBFW2).

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## ***Company profile.***

***RATOC Systems, Inc*** was founded in 1983. The company has 9 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.