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TECHNOLOGY GROUP

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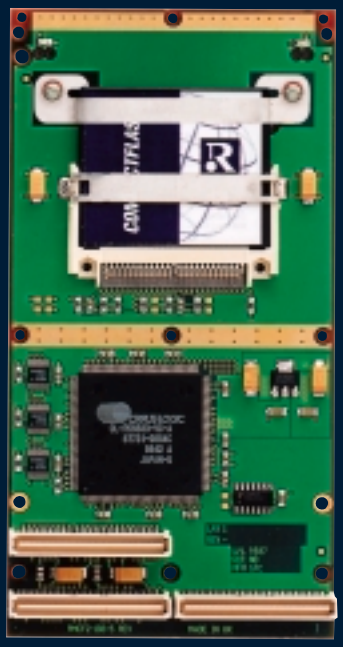
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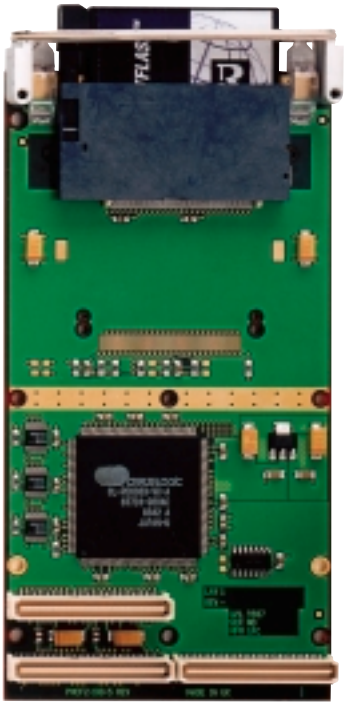
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PMC F2

Solid state, Non Volatile Memory for Rugged Applications





- CompactFLASH Memory Adaptor
- 5 Air & Conduction-Cooled Ruggedization Levels
- IDE Disk like structure and performance
- Customer up-gradable
- PCI 2.1 Compliant Interface
- Low power consumption
- VxWorks support†
- Single slot solution

Product Overview

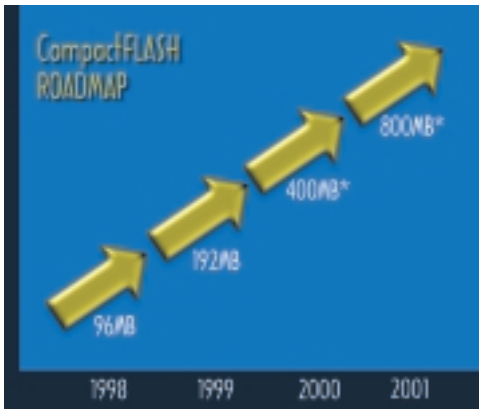
PMC F2 is the latest extension to Radstone's growing family of COTS IEEE 1386.1 compliant PMCs (PCI Mezzanine Cards), offering cost effective system solutions in five ruggedization levels to meet the needs of the world's Industrial and Defense OEM marketplace. PMC F2 is ideal for use with Radstone's market leading family of PowerPC VME SBCs and PMC Carrier Cards.

Targeted at applications which require rugged, solid state, non-volatile memory storage (e.g. for data logging, secure mission data, application code etc.). The transportability of CompactFLASH allows key data to be inserted and removed from the system as and when required. For standard and extended temperature units, the CompactFLASH device may be ejected through the front panel. For rugged air and conduction-cooled versions it is necessary to remove the CompactFLASH card retaining screws.

PMC F2 comes fitted with 8Mbytes of CompactFLASH, fully tested and qualified in five ruggedization levels. This memory capacity can be upgraded by the user with any of the rapidly expanding range and densities of CompactFLASH cards.

This approach allows users to cost-optimize their current system solution, whilst at the same time future-proofing the design to cater for system upgrades. Burst memory reads of up to 4MBytes/s are achievable.

All this can be achieved within a single-width PMC slot.



* estimated from current trends

RADSTONE TECHNOLOGY

Why settle for less

Further storage expansion is readily achieved by fitting multiple PMC F2 modules to Radstone's integrated family of rugged PMC Carrier Cards (see the P0CC1 data sheet).

The use of Radstone's P0 carrier technology offers low cost scaleable solutions, allowing replacement of dedicated 6U VME cards with easily configurable PMC building blocks. These cater for memory as well as MIL-1553, Serial, ATM, Graphics or other PMC expansion modules from Radstone or third party suppliers.

The weight of the PMC F2, with a CompactFLASH card fitted, is :
85g for air cooled variants
75g for conduction-cooled variants

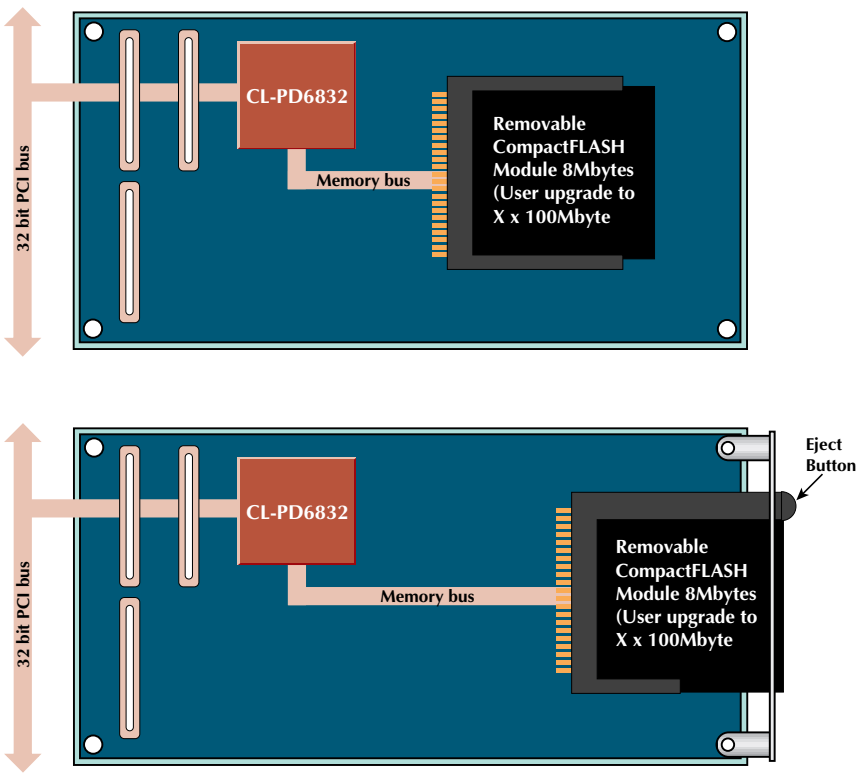


Figure 1: PMC F2 Block Diagram

PMC F2 Standard Ordering Information

Sales Code	
PMCF2 –100	CompactFLASH memory PMC card with 8Mbytes on-board
PMCF2 –200	Air cooled as above to ruggedization level 2
PMCF2 –301	Air cooled as above to ruggedization level 3
PMCF2 –401	Conduction cooled as above to ruggedization level 4
PMCF2 –501	Conduction cooled as above to ruggedization level 5

† Other operating systems support under development. Contact local sales office for details.

UK
Radstone Technology
Water Lane, Towcester,
Northants NN12 6JN
Telephone: +44 (0) 1327 359444
Fax: +44 (0) 1327 359662
E-mail: sales@radstone.co.uk
Videoconferencing: +44 (0) 1327 359495
(by arrangement)

USA
Radstone Technology Corporation
50 Craig Road
Montvale, NJ 07645-1709
Telephone: +1 800 368-2738
Fax: +1 (201) 391-2899
E-mail: radstone@radstone.com

North Eastern Region: +1 (201) 391-2700
South Eastern Region: +1 (703) 383-3150
Central Region: +1 (816) 584-8560
Western Region +1 (909) 974-1141

FRANCE
Radstone Technology SA
6 avenue des Andes
91952 COURTABOEUF Cedex
Telephone: +33 (01) 64.46.04.03
Fax: +33 (01) 69.28.03.40

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