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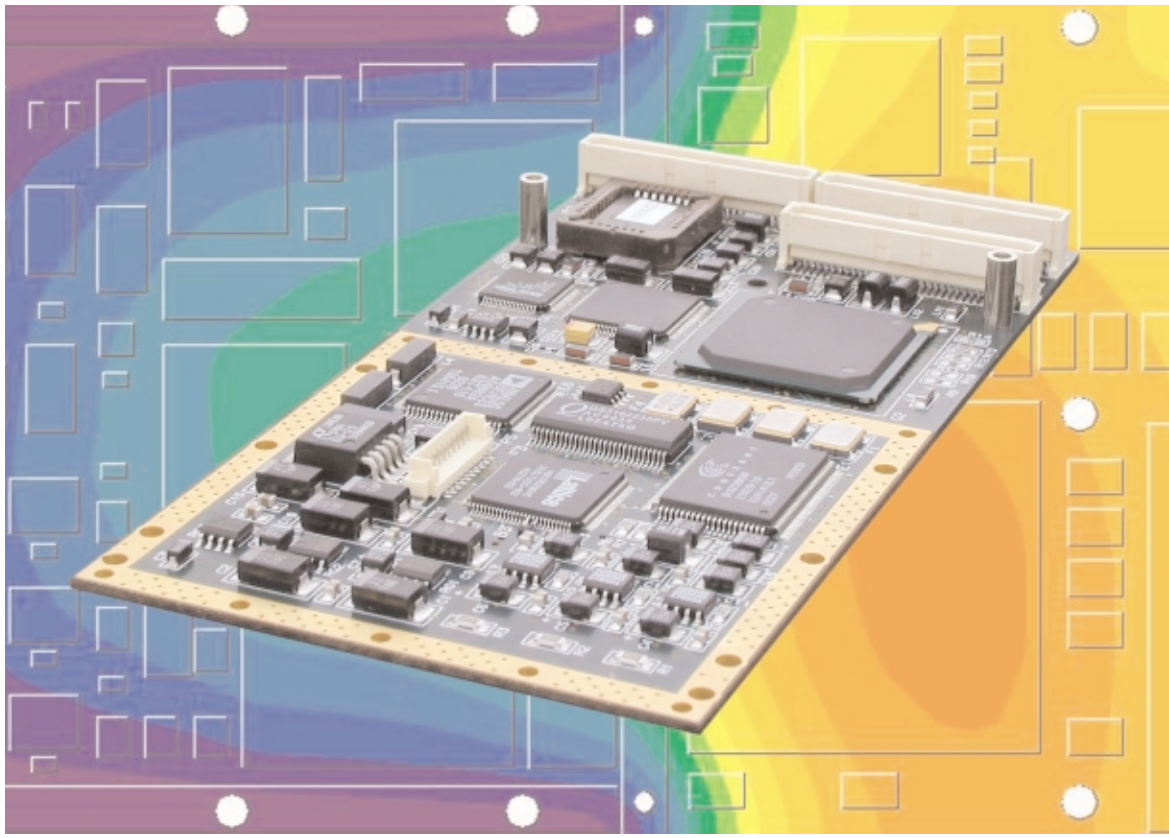
FALCON CC PMC GRAPHICS AND VIDEO WINDOWS CARD

FEATURES

- Rugged conduction cooled, low power design
- Output display resolutions up to 1280x1024 (24-bit colour)
- Analogue RGB video output
- Composite (CVBS), S-Video (Y/C) or RGB video input
- Input of interlaced or non-interlaced video (PAL, NTSC, SECAM, CCIR, RS-170 or RGB from VGA up to SVGA)
- Video window may be zoomed in or out to full screen resolution
- Full software support

APPLICATIONS

- Airborne displays
- Multifunction consoles
- Video windows systems



Falcon CC is a member of the Hawkeye PMC range of radar, video and graphics boards. It is an integrated graphics and video windows card in a rugged conduction cooled PMC form factor. It supports a full range of display resolutions up to 1280x1024 pixels.

Falcon CC uses the Silicon Motion Lynx3DM+ graphics controller offering the advantage of low power dissipation whilst maintaining powerful 3D and 2D performance. The Lynx3DM+ incorporates an IEEE Floating Point Setup engine as well as a fully featured 3D rendering engine.

Falcon CC's video input accepts composite (CVBS), S-Video (Y/C) or RGB video in PAL, NTSC or SECAM formats. Monochrome video in CCIR or RS-170 format is also supported. Video input of non-interlaced RGB video (e.g. VGA 640x480) is also possible. Video windows generated from the video input may be optionally zoom enlarged to full screen or zoom reduced down to one sixteenth original size.

Falcon CC outputs standard analogue RGB video. The card supports 8-bit, 16-bit or 24-bit colour. A wide range of interlaced and non-interlaced formats are supported, including modified STANAG 3350 AVS Class A.

Falcon CC features a rugged conduction cooled design with low power dissipation. This allows it to operate in a very wide range of environments, including conditions of high temperature and vibration.

A broad range of software support is provided for the card. Applications may be developed running under Linux, Solaris (Intel x86 only) and LynxOS.

Prima GRAPHICS

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HAWKEYE PMC RANGE

SPECIFICATION

Architectural & Functional

- Silicon Motion Lynx 3DM+ graphics controller
- 8 MB graphics memory
- Onboard TV decoder and RGB digitiser
- 8-bit, 16-bit or 24-bit colour display modes
- De-interlacing by static mesh or alternate field discarding

Video Input (Level 4 ruggedised cards only)

- Type: Composite (CVBS), S-Video (Y/C) or RGB
- Format:
  - Interlaced: PAL, NTSC, SECAM, CCIR, RS-170
  - Non-interlaced (RGB): from VGA (640x480 at 60 Hz) up to SVGA (please consult factory)

Analogue RGB Output

- Resolution: up to 1280x1024 at 85 Hz
- Sync type: Sync-on-Green, Composite or Separate H+V (via PMC P4 connector only)
- Video levels: 0.7 V video + 0.3 V sync
- Impedance: 75 Ohm

Note: Output timing is compatible with STANAG 3350 AVS Class A

Connectors

- PMC & Onboard I/O:
  - P1, P2, P4: Standard PMC Interface (IEEE P1386 compliant)

Note: Video input and output is via the PMC P4 connector.

Software, O/S & Host Support

- API Software Library: Video windows extensions for standard X Server (Linux, Solaris and LynxOS)
- Application Software Library: X11R6 Server
- O/S and Environment Support(1): X Windows, Linux, Solaris (Intel x86 only) and LynxOS
- Host support(1): PowerPC and Intel x86

Physical & Mechanical

- Single PMC module
- Dimensions: 74.00 mm x 143.75 mm (2.91 in x 5.66 in)
- Weight: approx. 0.072 kg (0.16 lbs)
- Ruggedization options: Level 4 or Level 5 build standard (both with conformal coating).

Electrical

- Power consumption: 5.72 W (maximum)
- Power supply tolerance and current requirements (maximum):

+3.3 V:	±5%	0.74 A
+5 V:	±5%	0.32 A
+12 V:	±10%	0.06 A
-12 V:	±10%	0.08 A

- Standard PCI v2.1 interface (33 MHz, 3.3 V or 5 V signalling)

Environmental

	Level 4	Level 5
• Op. Temp. (°C):	-40 to +75	-40 to +85
• Storage Temp. (°C):	-50 to +100	-50 to +100
• Rel. Humidity (NC):	5% to 95%	5% to 95%
• Shock:	40*g* peak sawtooth 11 ms	40*g* peak sawtooth 11 ms
• Vibration:	0.1g^2/Hz 5 to 2000 Hz	0.1g^2/Hz 5 to 2000 Hz

- Altitude: Please consult factory.

Reliability

- MTBF: Depends on environment. MIL-217-F calculated and field-based figures may be requested from factory.

Ordering Information:

- Generic family part number: 775xxx

(1) Please consult factory to check if your particular combination of O/S and host is currently supported.

Primagraphics reserves the right to modify specifications without notice

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