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HAWKEYE PMC RANGE

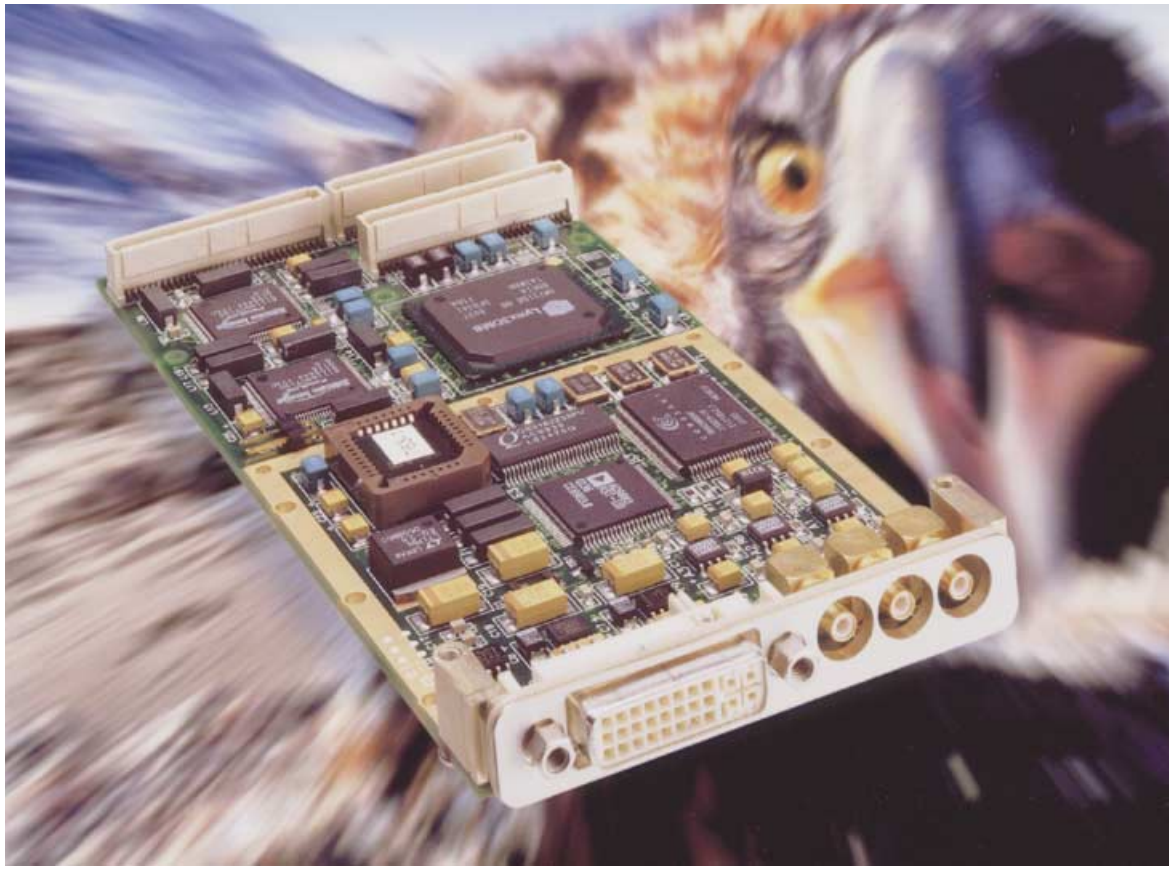
FALCON PMC GRAPHICS AND VIDEO WINDOWS CARD

FEATURES

- Output display resolutions up to 1280x1024 (24-bit colour)
- Analogue RGB or digital DVI video output (analogue TV output under Windows NT 4.0 or Windows 2000 only)
- Rugged, low power design
- 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 SXGA)
- Zoom in or out to full screen resolution
- Full software support
- Integration with Eagle PMC Radar Scan Converter

APPLICATIONS

- Airborne displays
- Naval Command and Control display consoles
- Multifunction consoles
- Video windows systems



Falcon is a member of the Hawkeye PMC range of radar, video and graphics boards. It is an integrated graphics and video windows card that supports a full range of display resolutions up to 1280x1024 pixels.

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

Falcon'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.

Video output from Falcon is either analogue RGB, digital DVI or analogue TV (Windows NT 4.0/2000 only). The card supports 8-bit, 16-bit or 24-bit colour. A wide range of interlaced and non-interlaced formats are supported, including STANAG 3350 AVS Class A. The DVI output may be used as an input to other boards in the Hawkeye PMC range (such as the Eagle PMC Radar Scan Converter) to offer display combinations of radar, video and graphics.

Falcon features a rugged design with low power dissipation. This allows it to operate in a 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), LynxOS or Microsoft Windows NT 4.0/2000 (graphics only).

Certificate Number FM 02870

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HAWKEYE PMC RANGE

SPECIFICATION

Architectural & Functional

- Silicon Motion Lynx3DM or Lynx 3DM+ graphics controller
- 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

- 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 SXGA (please consult factory)

Analogue RGB, Digital DVI or Analogue TV Output

- Analogue RGB:
  - 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
- Digital DVI:
  - Resolution: up to 1280x1024 at 60 Hz
  - Signal type: standard DVI TMDS PanelLink
  - Pixel clock: up to 165 MHz
- Analogue TV (via PMC P4 connector only) (1):
  - Type: Composite or S-Video (Y/C)
  - Format: PAL or NTSC
  - Video level: 1 V
  - Impedance: 75 Ohm

Note: Analogue RGB output is compatible with STANAG 3350 AVS Class A

Connectors

- Front Panel:
  - Video input: 3x SMB sockets
  - Video output (combined digital and analogue): DVI-I socket
- PMC & Onboard I/O:
  - P1, P2, P4: Standard PMC Interface (IEEE P1386 compliant)

Note: Video input and output is also possible via the PMC P4 connector. This is a factory build option.

Software, O/S & Host Support

- API Software Library: Video windows extensions for standard X Server (Linux, Solaris and LynxOS) or DirectDraw and Direct3D (Windows NT 4.0/2000)
- Application Software Library: X11R6 Server
- O/S and Environment Support (2): X Windows, Linux, Solaris (Intel x86 only), LynxOS, Windows NT 4.0/2000 (graphics only)
- Host support (2): PowerPC and Intel x86

Physical & Mechanical

- Single PMC module
- Dimensions (including front panel connector): 74 mm x 155 mm (2.91 in x 6.10 in)
- Weight: approx. 0.10 kg (0.22 lbs)
- Ruggedization options: Level 1 or Level 2 (conformally coated) build standard

Electrical

- Power consumption: 5.25 W (maximum)
- Power supply tolerance and current requirements (maximum):

+3.3 V:	±5%	0.65 A
+5 V:	±5%	0.32 A
+12 V:	±10%	0.08 A
-12 V:	±10%	0.08 A

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

Environmental

	Level 1	Level 2
• Op. Temp. (°C):	0 to +55	-20 to +65
• Storage Temp. (°C):	-50 to +100	-50 to +100
• Rel. Humidity (NC):	5% to 95%	5% to 95%
• Shock:	20*g* peak sawtooth 11 ms	20*g* peak sawtooth 11 ms
• Vibration:	0.002g^2/Hz 10 to 2000 Hz	0.002g^2/Hz 10 to 2000 Hz

- Airflow and Altitude: Please consult factory.

Reliability

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

(1) Analogue TV output is currently supported under Windows NT 4.0 and Windows 2000 only.
(2) Please consult factory to check if your particular combination of O/S and host is currently supported.

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