



UNITRONIX Pty Ltd

PO Box 486, Morisset NSW 2264

NSW: Tel: 61 2 4977 3511 Fax: 61 2 4977 3522

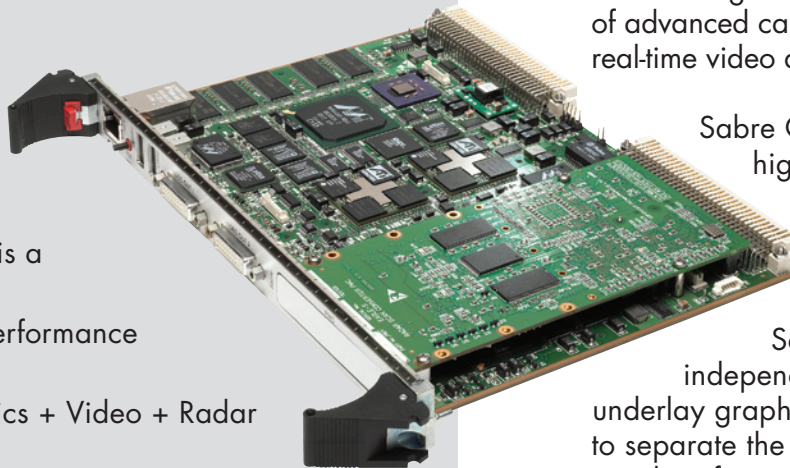
WA: Tel: 61 8 9455 2424 Fax: 61 8 9455 2458

unitsyd@unitronix.com.au www.unitronix.com.au

Sabre

VME Graphics and Imaging Platform
Graphics + Video + Radar Display

Sabre combines a high-performance PowerPC processor with a multi-head, multi-layer graphics video and radar display capability in a single VME slot. Building on many years experience in providing display processor solutions for command and control applications, Curtiss-Wright's Sabre display processor offers a number of advanced capabilities for displaying graphics and real-time video data.



Sabre is a
high-performance
Graphics + Video + Radar
imaging platform for VME
or standalone network-centric
display solutions

Sabre Graphics capability is provided by high-performance ATI M9 graphics processors, with two devices supporting a total of 128 MB of display memory to drive a dual head display at resolutions up to 1920 x 1200.

Sabre's graphics architecture supports independent frame stores for overlay and underlay graphics, a feature that enables applications to separate the updates of rapidly changing overlay graphics from slowly changing, yet complex, underlays such as maps or charts.

Sabre Video acquisition is supported from TV resolution inputs (NTSC/PAL), and high-resolution RGB at up to 1600 x 1200 resolution. Sabre can display two video sources (any two selected from two RGB and eight TV), which are processed by a high-quality video scaler to a window of programmable size and position.

For more information on our broad range of high-integrity computing solutions, please visit our website at www.cwembedded.com.

**CURTISS
WRIGHT** **Controls**
Embedded Computing



Sabre

VME Graphics and Imaging Platform
Graphics + Video + Radar Display

Sabre is compatible with Curtiss-Wright's Eagle-S radar scan-converter, which may be configured to receive radar video from a network connection. Radar video may be received over a network connection from a remote radar video server, such as Curtiss-Wright's RVP product. When fully configured with all options, Sabre provides a dual head graphics display with dual video windows and radar scan conversion.

Graphics Overlay
Up to 24 bits

Video
24 bits

Radar
8 bits

Graphics Underlay
Up to 24 bits

Features

Sabre CPU

- ◆ 750 GX PPC, 1 GHz clock speed, up to 512 MB RAM, 4 x USB 2.0, VME slave interface, twin 10/100/1000 TX Ethernet interfaces

Sabre Video Outputs

- ◆ Dual screen DVI-I output with independent configuration for each head
- ◆ Display resolution 1024 x 768 to 1920 x 1200 on each head

Sabre Video Inputs

Two channels selectable for acquisition and windowing, selectable from the following physical inputs.

- ◆ 2 x interlaced or non-interlaced analogue RGB at resolutions up to 1600 x 1200. Sync type may be separate H & V, composite or sync-on-green.
- ◆ 8 x NTSC/PAL TV resolution.

Video is scalable into a window that can be programmed at ½ to x8 of the input resolution

Sabre Radar

- ◆ Optional radar scan conversion through Eagle-S PMC module
- ◆ Radar input from network (RVP) or signals
- ◆ On-board radar decompression
- ◆ On-board mixing of radar with graphics

Graphics Processors

- ◆ Processor: Twin ATI RADEON 9000 (M9)
- ◆ Clock speed: 250 MHz
- ◆ Memory: 64 MB per processor (128 MB total)
- ◆ Display Organisation: Programmable as 8, 16 or 24 bits underlay with independent 8, 16 or 24 bits overlay. Total of 80 bits per pixel.