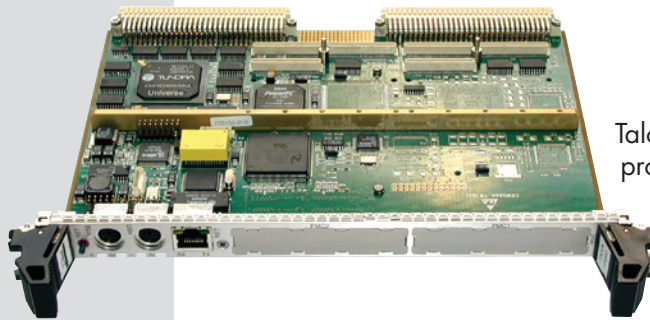




Talon

PMC Carrier and Single Board Computer

- ◆ PowerPC 405GP processor
- ◆ Two PMC Sites with 32-bit, 33 MHz, +5V signalling
- ◆ Industry standard Universe II PCI to VME bridge chip
- ◆ 10/100 Ethernet I/F
- ◆ 128 or 256 MB of SDRAM
- ◆ 4 to 16 MB of Flash
- ◆ Real-Time-Clock with battery back-up
- ◆ PS/2 Keyboard and Mouse Interface
- ◆ Four RS-232 serial channels
- ◆ On-board +5V to +3.3V switching power supply.
- ◆ Applications include:
 - Radar scan-conversion
 - Radar video server
 - Multi-head graphics displays



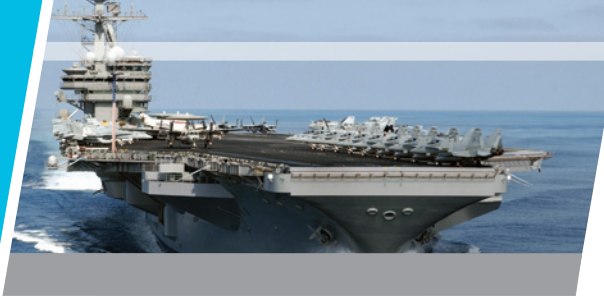
Talon is a single-slot VME PowerPC processor card and is part of Curtiss-Wright Controls Embedded Computing's Hawkeye product family. Designed to serve as a host for embedded application

software and as a carrier for one or two PMC sensor acquisition or display modules, Talon provides a highly integrated set of processing and input-output capabilities. These capabilities combine with specialised PMC acquisition and display modules to offer cost-effective solutions for radar command and controls systems.

Talon is fitted with a high-performance 405GP PowerPC and accommodates up to 16 MB of Flash memory and 256 MB of SDRAM for embedded application software. Equipped with all the usual input-output capabilities of a single board computer, including real time clock and multiple serial channels, Talon is an ideal platform for building embedded server applications that exploit the capabilities of Curtiss-Wright's Hawkeye PMC cards. Talon-based assemblies are available that provide single-slot scan-converters and radar video servers.

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



Talon

PMC Carrier and Single Board Computer

Radar Scan-Conversion

The Talon may be combined with the Eagle (radar scan-converter) and Osprey (radar input) PMC modules to form a radar acquisition and scan-conversion module. A variant of this configuration replaces the Osprey with a network interface to receive compressed video from a remote server, such as Curtiss-Wright's RVP (Radar Video Processor).

Radar Video Servers

When fitted with an Osprey radar input card and Curtiss-Wright's RVP software, a Talon assembly provides the capability to distribute primary radar video onto Ethernet. This offers a single-board server solution for radar acquisition and distribution, which is compatible with Talon-based client displays for receiving and displaying that video.

Specifications

Processor

- ◆ IBM PowerPC 405GP

Memory

- ◆ 128 or 256 MB of ECC memory
- ◆ 4,8 or 16 MB of Flash EPROM
- ◆ 32KB of battery-backed non-volatile RAM

VME Interface

- ◆ A32/A24/A16 master and slave cycles
- ◆ D64/D32/D16/D8 master and slave cycles
- ◆ Interrupt generation and handling
- ◆ System controller function

Network Interface

- ◆ 100BASE-TX/10BASE-T Ethernet
- ◆ Front panel RJ-45 or VME P2 connection

Software Support

- ◆ Curtiss-Wright embedded application software:
 - RVP Radar Video Server
 - PARIS P-Server for radar scan-converter
 - Embedded X Server

PMC Sites

- ◆ Two single-width 32-bit 33 MHz PMC sites
- ◆ Central reinforcing bar is compatible with Curtiss-Wright's PMC modules
- ◆ PMC site 1 compatible with VITA P4V2-46dx
- ◆ PMC site 2 compatible with VITA P4V0-64

Physical

- ◆ 6U single-slot VME module
- ◆ Optional P0 connector (ANSI/VITA 1.1-1997)
- ◆ IEEE1101.10 EMC shielded front-panel
- ◆ Central reinforcing bar compatible with VITA 20-200X

Build Quality

- ◆ Conforms to IPC610 Class 2 build quality standards

Environmental

Operating Temperature (°C):	-20° to +65°
Storage Temperature (°C):	-40 to +100
Humidity (NC):	Up to 95% RH, non-condensing
Shock:	20g peak; sawtooth; 11 ms duration
Vibration:	0.002g/Hz from 10 to 2000 Hz 2g from 5 to 500 Hz (Sinusoidal)