

Bridge2000

PC/104plus Bridge Board



Bridge2000 makes it possible to build complex and robust systems with up to seven PC/104plus expansion cards.

It incorporates active PCI-PCI bridging technology which overcomes the usual limit of three expansion cards imposed by PC/104plus architecture. Horizontal expansion also enables low profile devices to be developed.



Bridge2000 provides an on-board Compact Flash adapter and mounting points for standard 2.5" IDE notebook drives. These on-board devices improve system robustness significantly. A header is provided for connection to external devices such as IDE DVD/CD ROM drives or standard HDD drives.

Supports
multiple
PC/104plus
stacks
for complex
industrial systems



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Bridge2000 is designed for use with the AMP “Tiny” and “Micro” family of PC/104plus computers. For streaming applications the Bridge2000 can be used with a single Tiny886ULP or Micro886ULP computer plus up to seven MPEG4000xlp video encoder cards to provide seven concurrent streaming video channels.



Low
system profile
reduces
shearing forces
for mobile
applications

Applications

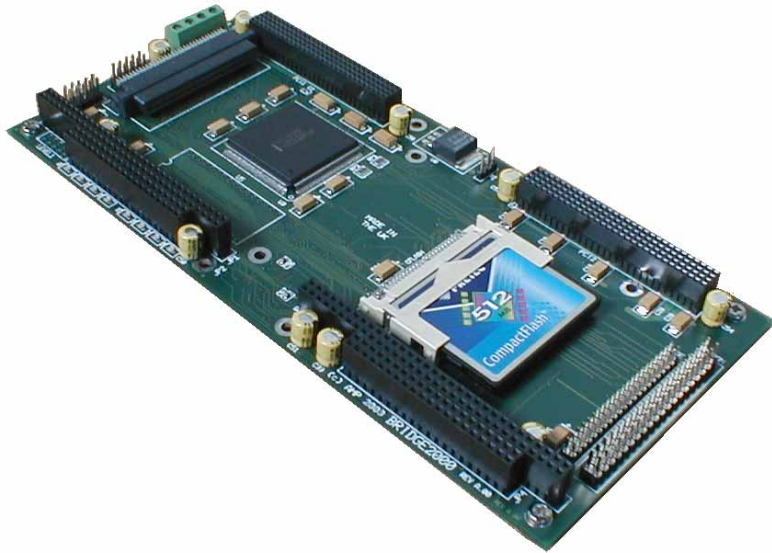
Industrial automation
Portable Test Equipment
Medical Instrumentation
Rugged, harsh environments
Embedded internet/intranet servers

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Features

- Supports up to 4 PC/104plus cards on primary stack
- Supports up to 4 PC/104plus cards on secondary stack.
- Compact Flash adapter for up to 6Gb solid-state storage
- Supports +5V or +3.3V logic signalling on secondary stack
- Option for mounting 2.5 inch Notebook hard disk
- Optional POST LEDs for system diagnosis
- Compact 8inch x 3.8 inch board size
- Single +5V operation
- Routes +12V supply to PC/104 and PC/104plus connectors

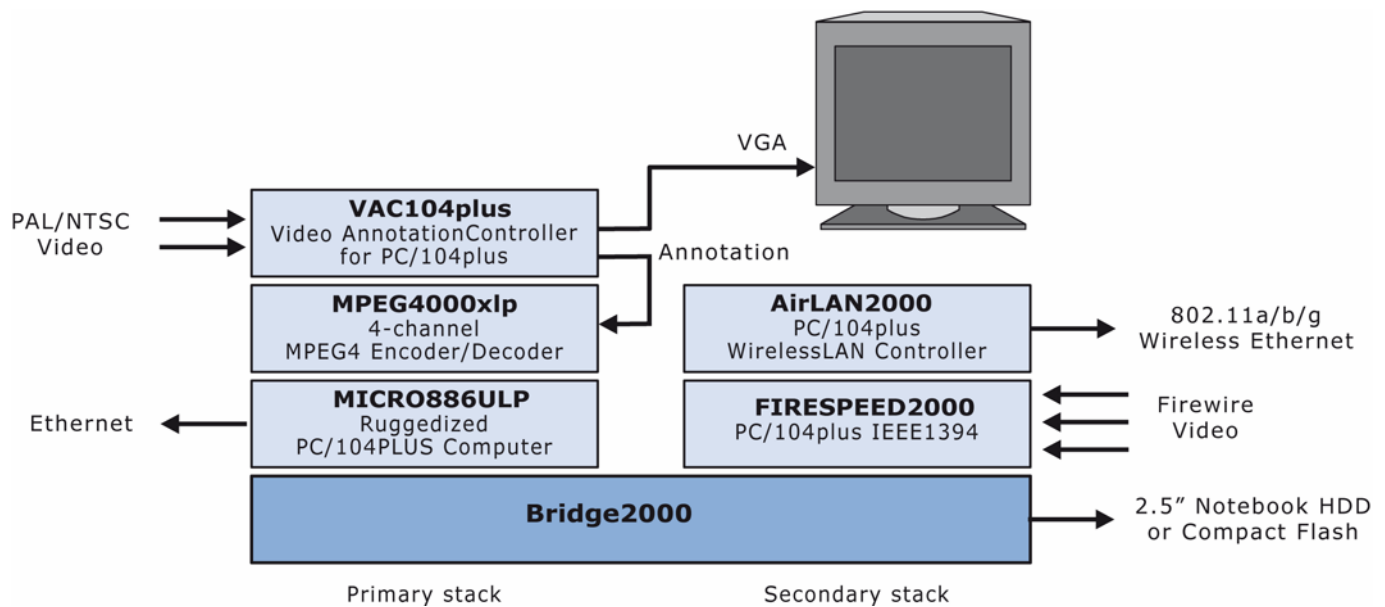
Overcome

PC/104plus

expansion

constraints

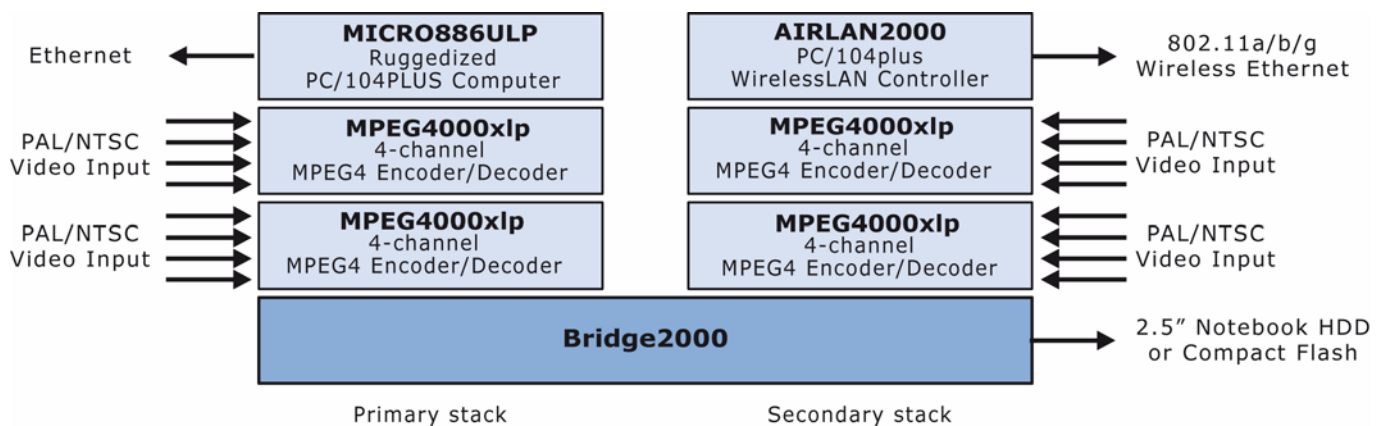
Video Annotation and Encoding System



A complete and versatile system for video capture, annotation and encoding can be built using Bridge2000 and the Advanced Micro Peripherals devices shown in the diagram above. The system can capture both analog NTSC/PAL video and digital video and add alpha-blended text and graphics.

The annotated video can be output straight to VGA or composite PAL/NTSC, or it can be compressed to MPEG4 format which is then stored on local media or streamed across a wireless link.

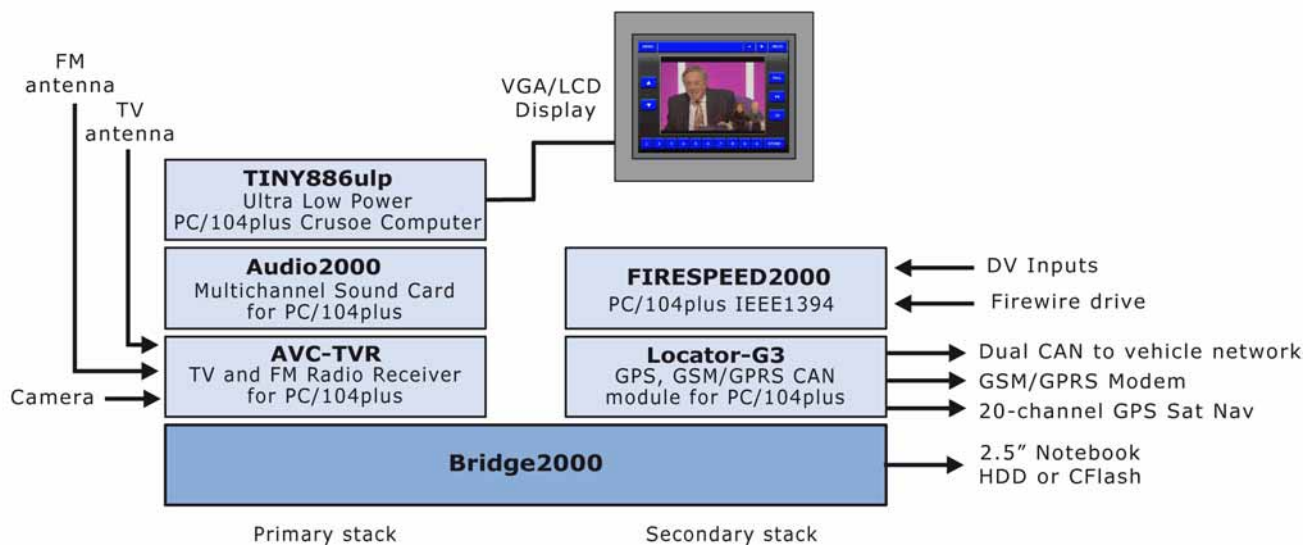
Multi-headed Video Encoder System



The multi-headed Video Encoder system is ideal for security and monitoring applications where multiple video sources must be archived in real-time. In this system four MPEG4000xlp units provide real-time MPEG4 encoding of sixteen separate composite NTSC/PAL sources.

These data streams can be archived to local storage or they can be transferred across wireless LAN via Airlan2000 or Ethernet via the Micro886ULP to a central archive. This system can be used for wireless streaming of encoded video data to a handheld PC device.

Mobile Infotainment System



A complete mobile entertainment and fleet management system can be obtained from the system illustrated here. Entertainment features include TV and radio reception with RDS, 6-channel audio and an annotated output to VGA or LCD display.

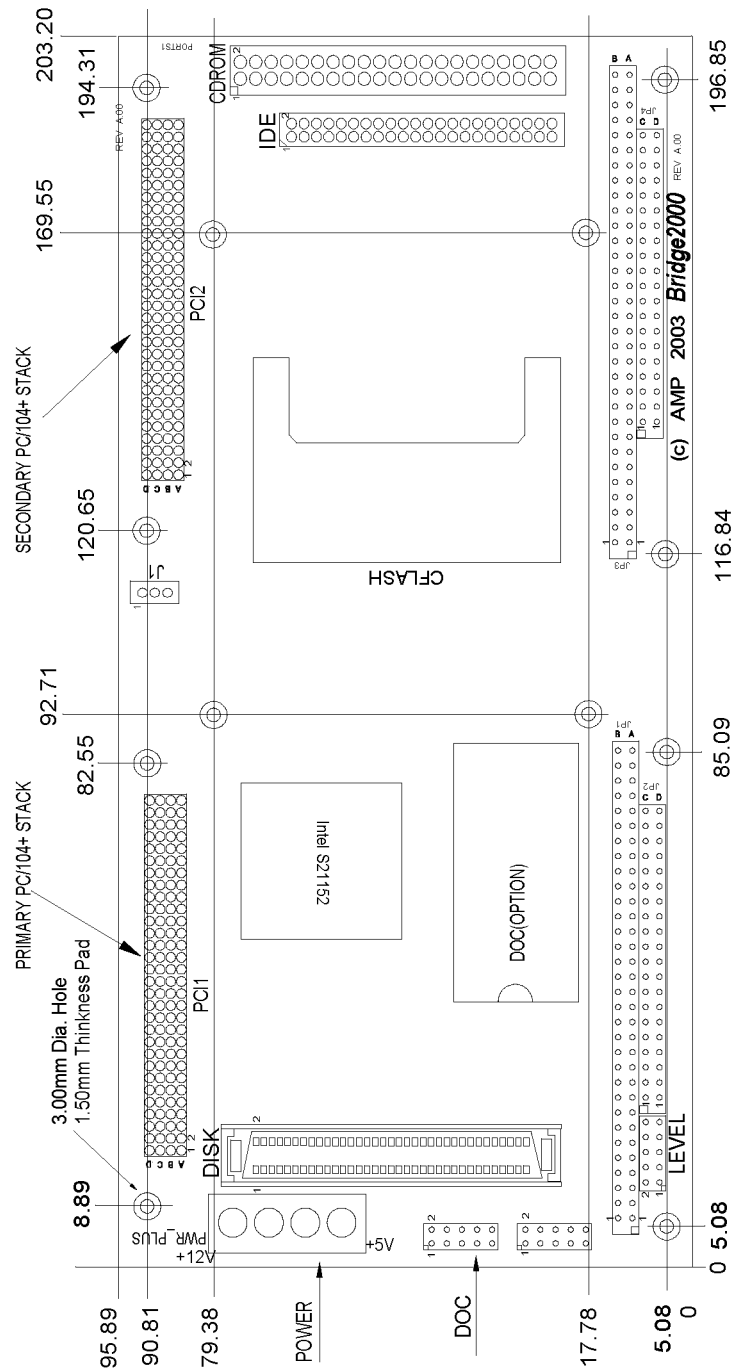
The system includes PAL/NTSC composite video inputs and DV inputs for easy connection to additional video

sources, for example a reversing camera. The Locator-G3 provides GSM, GPS and GPRS communication and dual Controller Area Network (CAN) vehicle communications connection and the Bridge2000 supports on-board storage.

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Technical Specification



Note:

1. All Dimensions in Millimeter (mm)



Related Products

Micro886ulp	Ultra Low Power PC/104plus Crusoe Computer
MPEG4000xlp	4-Channel MPEG4 Encoder/Decoder for PC104plus
AIRLAN2000	PC/104plus WirelessLAN controller
VAC104plus	PC/104plus Video Annotation Controller
Firespeed2000	IEEE-1394 FireWire Controller for PC/104plus
LocatorG3	GPS, GSM/GPRS CAN module for PC/104plus
Tiny886ulp	Ultra Low Power PC/104plus Crusoe Computer
Audio2000	PC/104plus Multi-Channel Sound Card
AVC-TVR	TV and FM Radio Receiver for PC/104plus

Ordering Information

Bridge2000-CFxxx	Bridge2000 with Compact Flash where xxx is the size of the disk in MBytes
Bridge2000-HDxxx	Bridge2000 with 2.5inch Hard drive where xxx is the size of the disk in GBytes