

FlashBusTM MV Plus

PCI VIDEO FRAME GRABBER

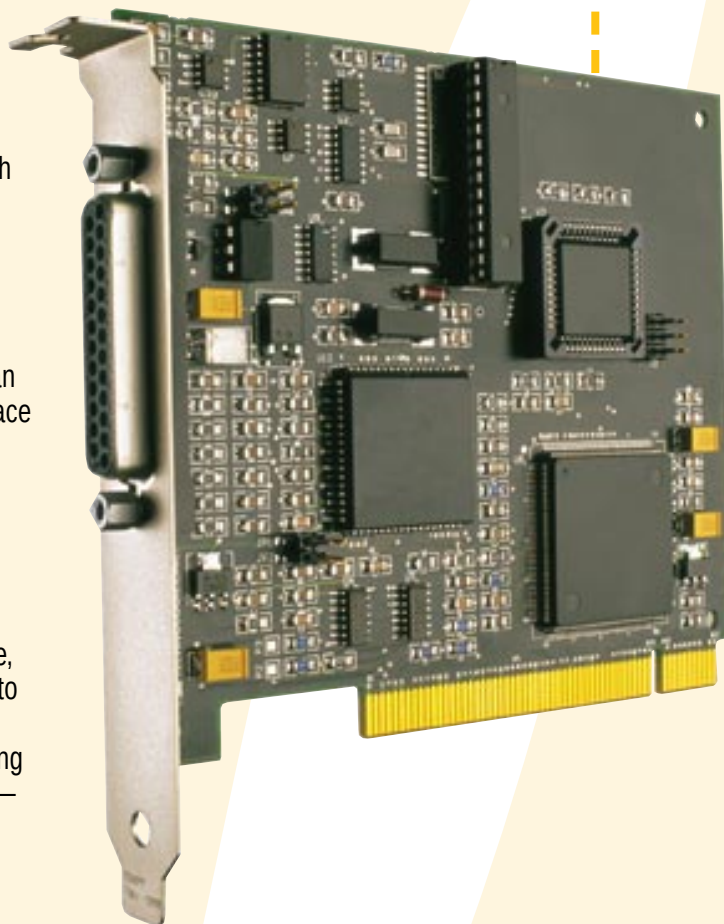
Integral Technologies has broken new ground with the FlashBus MV Plus — a PCI video frame grabber giving high-speed access to video images.

The FlashBus MV Plus is an amazingly affordable interface to a PC with multiple I/O triggers. And talk about seamless integration...

Maintaining the Integral tradition of excellence in both hardware and software, FlashBus MV Plus is easy to install and operate. Integral continues its industry-leading quest for full compatibility — this bus-mastering board works with nearly any machine.

The available Software Developers Kit is designed for Microsoft Windows 3.1, 95, 98, NT and for OS/2. Should technical support be needed, Integral's team of software engineers gives you immediate attention.

Quality, versatility and affordability — the distinguishing characteristics of Integral Technologies' FlashBus MV Plus.



ALSO AVAILABLE:

FlashBusTM MV

FlashBusTM MV Pro

KEY FEATURES

- Bus-mastering
- On-board microcontroller
- Software Developers Kit
- Low cost

APPLICATIONS

- Machine Vision
- Scientific Imaging
- Image Analysis
- Medical Imaging
- Law Enforcement
- Security & Access Control
- Biometric Identification

Visit our Web Site at www.integraltech.com

INTEGRAL[®]
TECHNOLOGIES, INC.

FlashBusTM MV Plus

PCI VIDEO FRAME GRABBER

FlashBus MV Plus is a high-speed, low-cost, PCI bus-mastering frame grabber designed to capture 8 bits-per-pixel monochrome and 24 bits-per-pixel color video in real time to system memory. FlashBus MV Plus was specifically developed for applications requiring very high-quality, high-speed image capture such as machine vision, inspection, scientific imaging, medical imaging and other business applications.

Bus Mastering Performance

Taking advantage of its high-speed PCI-based bus-mastering capabilities (up to 132 Mbytes/s), FlashBus MV Plus delivers consecutive frames of video in real time into system memory while the CPU is free to operate on other applications.

External Triggers

FlashBus MV Plus accepts one input trigger so that image acquisition can be synchronized to external events. Interrupt and polled input triggers are available to control external events in a technique best suited for application execution. FlashBus MV Plus also provides one TTL level output trigger for controlling external devices and one optically isolated flash trigger.

Programmable Intelligence

FlashBus MV Plus incorporates an on-board microcontroller to guarantee accurate strobe synchronization and robust trigger and serial I/O. The on-board microcontroller relieves the host CPU of the details of counting sync or servicing serial interrupts. Bit level control of the I/O triggers and the serial port provides real-time control. FlashBus MV Plus supports hardware video capture with no CPU intervention.

Software Developers Kit

A comprehensive Software Developers Kit provides programmable access to the features of the FlashBus MV Plus hardware architecture. The SDK includes DLLs for Microsoft Windows 3.1, 95, 98, NT, IBM OS/2 DLLs, TWAIN and MCI drivers, a Video-for-Windows driver and sample applications with source code. Included with FlashBus MV Plus is FBG, a Windows-based application that automates the capture of video images with full software control of most industry-standard video cameras.

CPU and Software Compatibility

FlashBus MV Plus provides a PCI 2.1 interface having both slave and master mode compatibility. FlashBus MV Plus was designed to be fully compatible with Pentium, Pentium Pro, MMX and Pentium II computers. FlashBus MV Plus is fully software compatible with the entire line of FlashBus products and runs all FlashBus software.

SPECIFICATIONS

Analog Video Inputs

- (6) Composite/RS170/CCIR, (3) S-Video
- 25 pin connector
- NTSC and PAL software selectable

I/O Control

- 1 optically isolated output trigger for flash interface
- 1 TTL input trigger
- 1 TTL output trigger

Video Decoder

- Accepts NTSC and PAL, Composite, and S-video
- Genlocks to any NTSC/PAL video source including cameras, VCRs, laser discs and still video players
- 24/16/15/8 bit video digitizing
- Square pixel digitizing resolutions for NTSC (12.27 MHz at 640x480) and PAL (14.75 MHz at 768x576)
- Digital control of offset, gain, brightness, contrast, hue and saturation
- EEPROM for storing configuration and calibration settings

Video Format

- 24/16/15 bit RGB (or) YUV 4:2:2 software selectable
- Y8 monochrome

RGB Video Pixel Format

888 - 16.7 million colors
565 - 65 thousand colors
555 - 32 thousand colors
8 - 256 level monochrome

Video Throughput Performance

- Full size, full speed video delivery to and from system or VGA memory
- Full bandwidth PCI bus master read and write (up to 132 Mbytes/s)

Video Scaling Processor

- High quality still frame video capture
- Smooth, high quality interpolated scaling is performed on video in X (horizontal) and Y (vertical) directions
- Supports hardware cropping

Video Output Display

- Video-in-a-window screen resolution to 640x480 (768x576 for PAL)
- 24/16/15-bit video displayed on up to 1600x1200 VGA desktop
- Selectable refresh rate: 30 frames/second, 60 fields/second, or 30 fields/second

External Camera Control

- Software controllable, optically isolated, universal strobe interface
- On-board serial interface for camera or external device control
- 12 volt DC fused power output, resettable and on/off control
- Camera integration control

Software Developers Kit

- MS Windows 95, 98 and NT display drivers
- MS Windows 95, 98 and NT DLLs
- MS Windows MCI and Video for Windows (AVI) drivers
- Microsoft DirectDraw support
- OS/2 display drivers and DLLs
- TWAIN driver
- Sample applications with source code
- MS Windows FBG video capture application

Video Input Cable

- Standard Composite, S-video and RS170 cables
- Custom cables and connector pinout available upon request



9855 Crosspoint Blvd., Suite 126, Indianapolis, IN 46256 USA

phone: +1-317-845-9242 fax: +1-317-845-9275

e-mail: info@integraltech.com website: www.integraltech.com