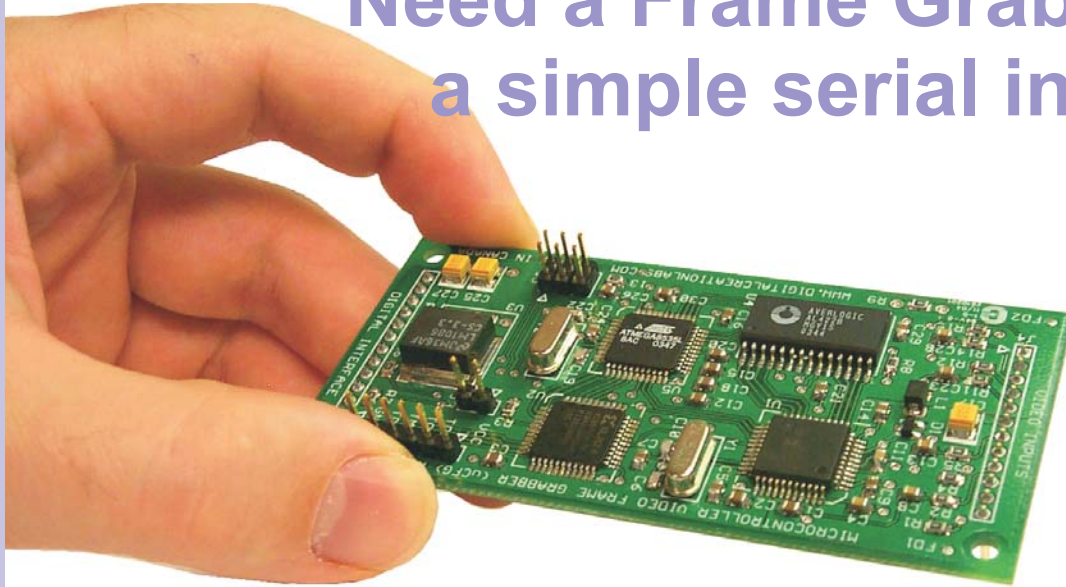


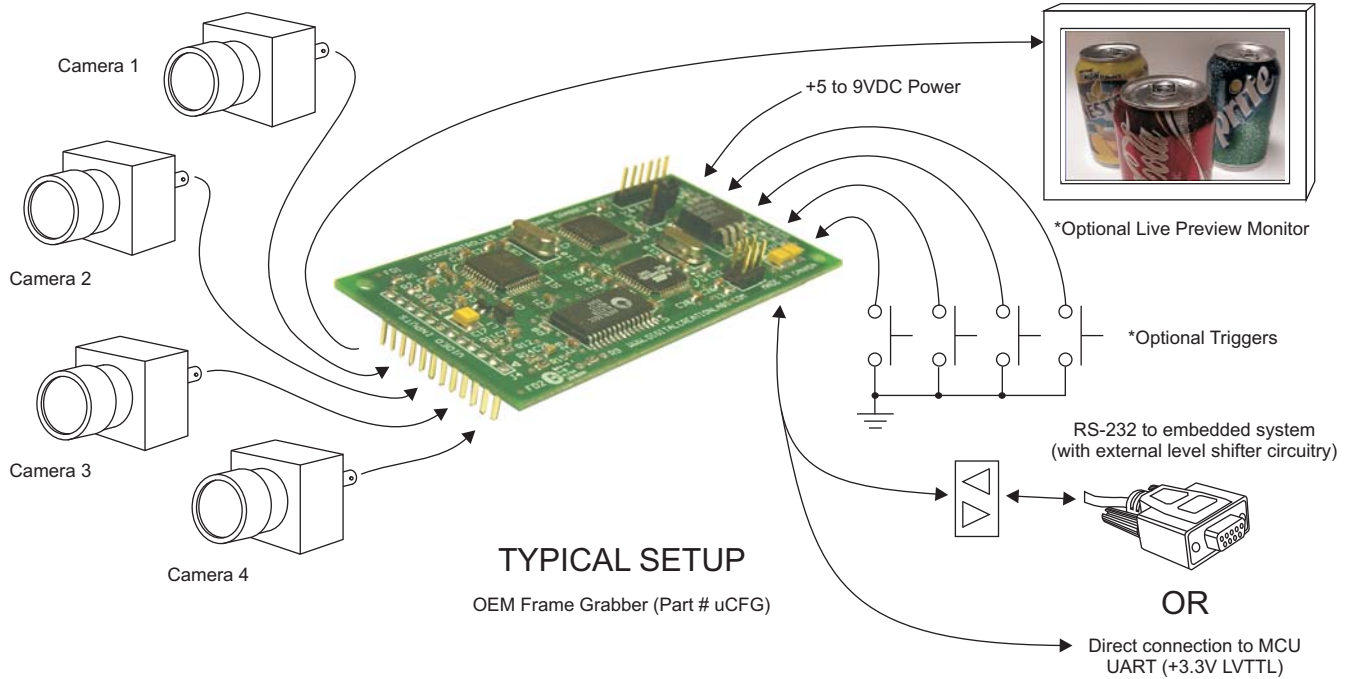
Need a Frame Grabber with a simple serial interface?



<http://www.digitalcreationlabs.com>

Features

- ✓ 4 composite analog input video channels with built-in multiplexer
- ✓ 4 input channels can instead be used as 2 S-Video inputs for studio quality image capture
- ✓ 1 composite analog video output channel for live viewing
- ✓ Native support for both PAL & NTSC
- ✓ Acquire a full field (720x240 NTSC, 720x272 PAL) of color video data to an on-board image buffer
- ✓ Compact YCbCr 4:2:2 image data format (if needed, simple host RGB conversion)
- ✓ Selective acquisition of ODD or EVEN field
- ✓ Send commands/download image data over a simple LVTTTL serial UART interface (or RS-232 with external level shifter) working at up to 230.4kbps
- ✓ Simple ASCII command set
- ✓ Supports 1:1, 2:1, 4:1 and 8:1 compressed image download modes
- ✓ Full software flow control allows downloading of image data to limited resources client
- ✓ Multiple download of image data stored in buffer with different decimation parameters. Allows quick thumbnail preview, then full resolution download
- ✓ Frame grab triggered by software command or, if required, through 4 external hardware trigger inputs with programmable polarity
- ✓ Complete trigger latch logic allows acquisition of first triggered frame following latch clear, or automatic overwrite. Serial commands allow reading of trigger status, latch, as well as clearing of latch
- ✓ All board configuration settings are set through user software and stored in non-volatile EEPROM
- ✓ 256 bytes of general purpose nonvolatile EEPROM user storage space accessible through serial port commands
- ✓ I²C bus available for expansion (i.e. Adding digital I/O's, A/D converter, etc...). I²C bus can be controlled directly through serial port commands
- ✓ Compact plug-in daughtercard design can be inserted OEM into a product (two 0.1" single row headers on back side)



Specifications

Video Inputs: 4 x composite or 2 x S-Video

Video Output: 1 x composite

Resolution: NTSC mode - 720 x 240
PAL mode - 720 x 272

Data format: YCbCr 4:2:2

Triggers: 4 x LVTTTL (+3.3V) inputs with programmable polarity

Baud rates: 2400, 4800, 9600, 14.4k, 19.2k, 28.8k, 38.4k, 57.6k, 76.8k, 115.2k, 230.4k

Compression: 1:1 (none), 2:1, 4:1, 8:1

EEPROM: 256 bytes (general user space)

ASCII command set: VER, CSEL, CGET, GRAB, RRST, RINC, SEND, BOOT, TEST, EEPR, EEPW, I2CR, I2CW, CFGR, CFGW, FD, TREN, TRRD, TRLR, TRLC, TRIG, PING

Power: 5 - 9VDC @ 175mA

Dimensions: 1.80" x 3.70"



Full evaluation kit also available (Part # uCFG EVAL)

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I N C O R P O R A T E D