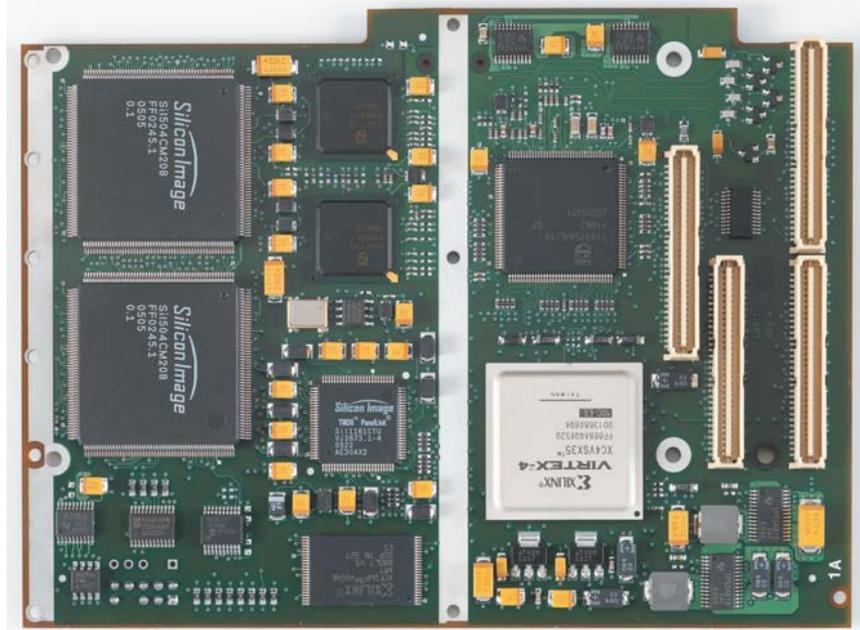


VIM2

Video Input Mezzanine

- Five simultaneous video inputs
- Input resolution up to UXGA
- RGB, digital and TV formats
- Motion adaptive deinterlacing
- 539 MBytes/sec aggregate digitized video bandwidth
- Up / downscaling of video inputs with programmable filter
- Four fully independent scalers
- Fully independent X and Y scaling



The VIM2 is the second video input mezzanine designed for the Octegra family of video and graphics engines. Simultaneously capturing five video inputs, and with advanced deinterlacing and scaling capabilities, the VIM2 significantly pushes the boundaries for embedded systems. Targeting mission computers, surveillance systems and video I/O applications, the VIM2 and the Octegra3 will allow system designers to provide superior situational awareness with outstanding clarity to the end user.

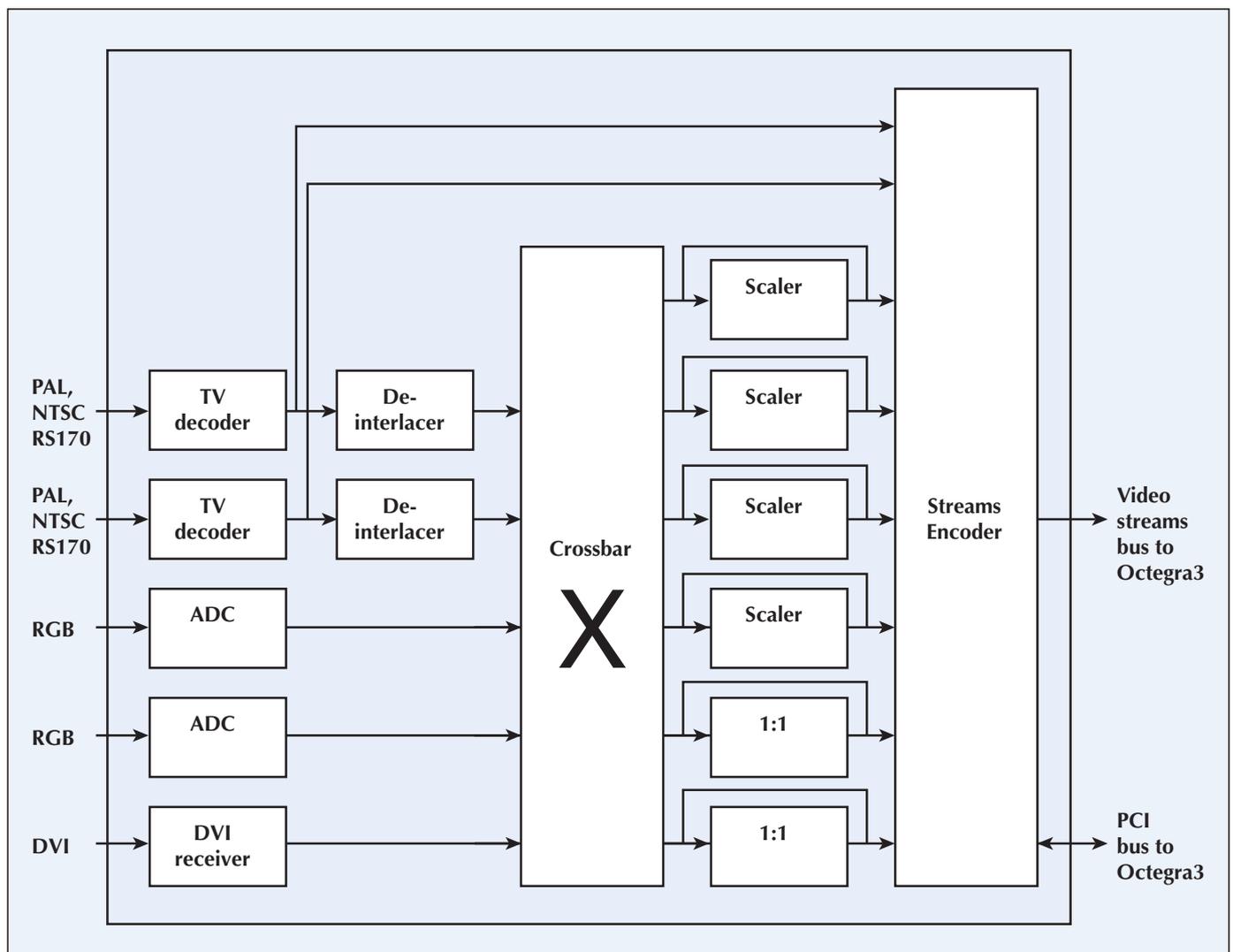
The VIM2 has two separate TV decoders. Depending on the application, there are a number of selectable deinterlacing modes available, including motion adaptive deinterlacing to provide the highest possible image quality.

Two separate triple video ADCs are provided, each allowing digitization of video resolutions up to SXGA. A variety of sync options are supported. The VIM2 has one DVI receiver capable of receiving DVI 1.0 digital video up to UXGA.

Incoming data from the five video channels is transferred to the Octegra3 motherboard via the "video streams bus". On the motherboard, the video data is passed to a pair of independent overlay & blending units where graphics symbology is overlaid onto the selected video inputs. Both overlay & blending units can simultaneously use all of the five video inputs.

FEATURES

Simultaneous video inputs	Five independent input channels
RGB input	Two independent input channels
RGB input resolutions	Up to SXGA: 1280x1024 @ 75 Hz
RGB sync options	Separate syncs; composite syncs; sync-on-green
Digital input	One channel
Digital input format	DVI 1.0
Digital input resolution	Up to UXGA; 1600x1200 @ 60 Hz
TV input	Two independent composite input channels, or one S-video input channel
TV input formats	NTSC; PAL; RS170; RS170A
Deinterlacing modes	Weave; motion adaptive
Scaling	Four independent scalers
Up-scaling	Maximum interpolation 1:4 (X) & 1:3 (Y)
Down-scaling	Maximum decimation 4:1 (X & Y)
Video streams bus bandwidth	539 MBytes/sec, aggregated across all input channels
Crossbar	Allows any input to be connected to any scaler or multiple scalers



Standard Ordering Information

Sales Code	Description
VIM2-100000	Level 1, air-cooled video input mezzanine Video input mezzanine for the Octegra3, with five simultaneous video inputs; 2x TV, 2x RGB and 1x DVI inputs
VIM2-200000	Level 2, air-cooled video input mezzanine, as above
VIM2-300000	Level 3, air-cooled video input mezzanine, as above
VIM2-400000	Level 4, conduction-cooled video input mezzanine, as above
VIM2-500000	Level 5, conduction-cooled video input mezzanine, as above
VIM2 SOFTWARE	
OCT3SW-VBSFM	Annual maintenance providing support and updates for board support firmware on Octegra3, including support for the VIM2

NOTE: The standard ordering information (above) defines the standard build variant. Consult your local Radstone sales office for availability of further build options.



USA
Telephone: +1 (800) 368-2738
E-mail: sales@radstone.com

EUROPE
Telephone: +44 (0) 1327 359444
E-mail: sales@radstone.co.uk

ASIA
Telephone: +61 (0)7 5579 9045
E-mail: salesasia@radstone.com

Visit www.radstone.com for a full list of regional offices and contact details

