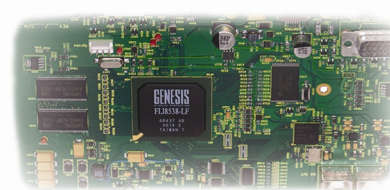




Ordering Information (as of May 2008)



	300	350	400	450	600	650
ANALOG INPUTS					**	**
• VGA	✓	✓	✓	✓	✓	✓
• YPbPr	✓	✓	✓	✓	✓	✓
• SVideo	✓	✓	✓	✓	✓	✓
• NTSC/PAL	✓	✓	✓	✓	✓	✓
DIGITAL INPUTS						
• SDI/HD-SDI		✓		✓		✓
• DVI/DVI-HD			✓	✓	✓	✓
• HDMI			✓	✓	✓	✓
OUTPUTS						
• TTL	✓	✓	✓	✓	✓	✓
• LVDS	✓	✓	✓	✓	✓	✓
• Panel Control Interface	✓	✓	✓	✓	✓	✓
• Image Flip Hardware*	✓	✓	✓	✓	✓	✓
CONTROL						
• Backlight On/Off/Dimming	✓	✓	✓	✓	✓	✓
• Picture in Picture	✓	✓	✓	✓	√**	√**
• RS-232 Commands	✓	✓	✓	✓	✓	✓
• Pushbutton OSD Support	✓	✓	✓	✓	✓	✓
• Rotary OSD Support	✓	✓	✓	✓	✓	✓
• IR OSD Support	✓	✓	✓	✓	✓	✓
MISCELLANEOUS						
• Temperature Sensor	✓	✓	✓	✓	✓	✓
• Full Screen Text Overlay	✓	✓	✓	✓	✓	✓
• 12/24/28 VDC Power	✓	✓	✓	✓	✓	✓
• Customizable Firmware*	✓	✓	✓	✓	✓	✓
• Customizable Footprint*	✓	✓	✓	✓	✓	✓

*Capability is optional across all models.

**Expanded analog input and PIP capability in 6xx models.














Industry-leading controller flexibility that enables your custom display project!

In the spirit of its namesake, the Djehuty™ family of display controllers continues the legendary accomplishments of the Egyptian god who is credited as the inventor of writing and who was a patron of scribes. Djehuty Displays™ brings video and display controllers to a whole new level of flexibility and functionality for digital signage and telecommunications applications.

Of course they accept a wide range of inputs and support the industry standard panel interfaces. But Djehuty™ controllers also give you additional features that often add time and money to the design of your solution. By incorporating multi-input power supplies, a robust set of RS-232 command and control functions, a temperature sensor, and support for multiple OSD interfaces, Djehuty™ display controllers take the worries out of designing your custom or standard display solution.

And, Djehuty™ display controllers can be customized to meet your exacting requirements. We can provide custom firmware for your project and we can even provide a custom hardware version if needed to solve problems such as foot print restrictions or legacy wiring harness routing limitations. We even offer low-profile versions of our boards for thin displays.

Key Features

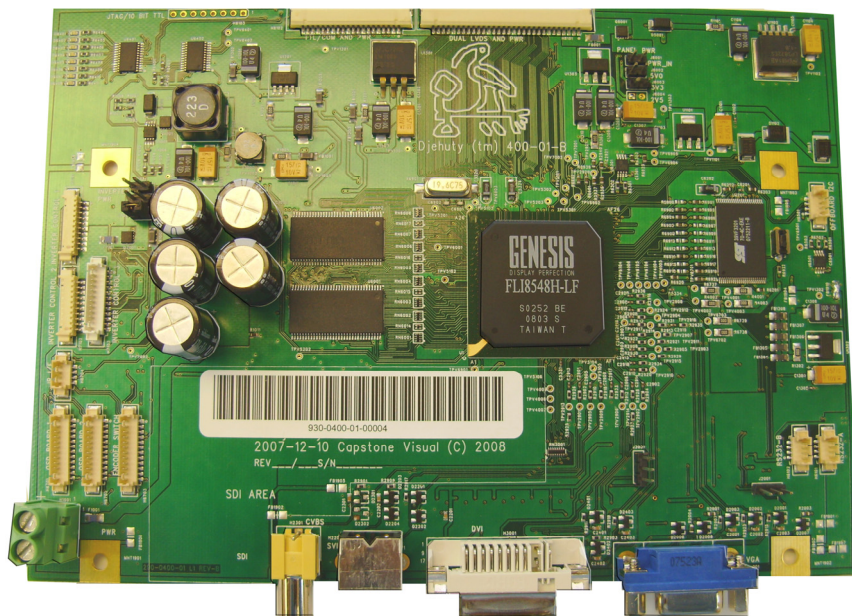
-  VGA, YPbPr, SVIDEO, and NTSC/PAL analog video inputs.
-  DVI, DVI-HD, HDMI, SDI-SD, and SDI-HD digital video inputs.
-  Enhanced scalar processing from QVGA to 1080P or WUXGA outputs.
-  LVDS and TTL/CMOS outputs with image flip (H, V, & HV) in hardware.
-  Analog and PWM control of both CCFL and LED backlight brightness.
-  Up to 15 lines of full-screen text overlay in color with various fonts.
-  On-board RS-232 interface for external command and control functions.
-  Onboard temperature sensor with backlight shutdown controls.
-  Runs on 12 to 28 VDC input power to reduce system cost and footprint.
-  Customizable firmware for commands and OSD functionality.
-  Rotary knob, pushbutton, and IR interfaces for OSD control.



266 Nooseneck Hill Road
Exeter, RI 02822 USA
Tel: +1-401-392-1023
Fax: +1-401-397-9193
www.CapstoneVisual.com
Info@CapstoneVisual.com



Based upon the industry-leading GENESIS™ video scalar processors, the Djehuty™ family of video control hardware offers superior quality to make your display project stand out from the competition.



Our customizable architecture provides the features you need to get to market quickly. And we can help you get there at a lower cost since we already did the work of including the necessary add-on items

Video Scalar and OCM

By utilizing the integrated analog and digital video input capabilities of the Genesis™ Farouda™ video scalar chip, the Djehuty™ family offers a minimized component count for smaller available foot print with increased processing capability. Besides the standard video scaling and color processing, Djehuty™ controllers utilize the on-chip-microprocessor to provide customizable functions as needed for the most demanding applications.

Analog Inputs

The Djehuty™ family offers internally multiplexed analog inputs with automatic synchronization so that multiple sources can be used with your signage or display project. Standard boards come with up to 3 "high speed" analog inputs for component (YPrPb), SVideo, and VGA signals and a "low-speed" connection for NTSC/PAL inputs. True high-definition boards also can be made with dual "high-speed" analog inputs that allow for (PIP) between two high-definition sources.

Digital Inputs

Support for digital signals comes from both integrated DVI/DVI-HD and HDMI processing in the Genesis™ chip as well as an external SDI/HD-SDI interface that can provide pass-thru and re-clocking capabilities. All digital inputs offer true high-definition signals to be processed and presented to the panel for the ultimate in information displays.

Video Outputs

The Djehuty™ family can talk to both TTL/CMOS and LVDS panels. By reconfiguring the Genesis™ chip, the necessary outputs can be generated. With the optional daughter cards, a single controller board can connect to a variety of either TTL/CMOS or LVDS panels by simply changing the interconnection card and cable.

On Screen Display Options

With the customizations available on the Djehuty™ controllers, OSD menus and devices can take on a wide range of features. From standard IR remotes and Quadrature pulse knobs to membrane switches and plain old buttons, no OSD interface is a challenge. Djehuty™ controllers can support up to 24 discrete inputs for user input options ranging from a completely flat menu tree to a combination of devices for a customizable experience. And with the various OSD input methods comes a multitude of processing functions to enhance the displayed image.

Auxiliary Functions

Besides display functions, the Djehuty™ family of controllers can also provide auxiliary functions such as on-board temperature sensing, RS-232 command streams, and backlight control for dimming and power saving modes. By utilizing the OCM of the Genesis™ video chip, these functions are provided with no significant increase in footprint. And since Djehuty™ controllers were bred for customizations, other features can be added as required for a wide range of display control needs.

Hardware Image Flip

The Djehuty™ family also offers a hardware option for those panels that do not have controllable image orientation control. With the "Flipper" hardware installed, the displayed image can be inverted in the horizontal and/or vertical directions.

