



Dave S.r.l.

Via Talponedo, 29/A
33080 Porcia (PN) - ITALY

+39 0434 921215

www.dave.eu

wiki.dave.eu

sales@dave.eu

info@dave.eu

DASHBOARD





Printed in Italy

TRADEMARKS

All other trademarks are the property of their respective owners

COPYRIGHT

All rights reserved. Specifications may change any time without notification

HISTORY

VERSION	DATA	NOTE
1.0.0	01/01/2012	



Dave S.r.l.
Via Talponedo, 29/A
33080 Porcia (PN) - ITALY
+39 0434 921215

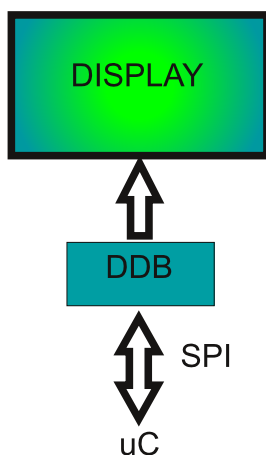
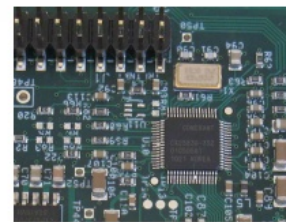
www.dave.eu
wiki.dave.eu
sales@dave.eu

DC0312R0

The DAVE dashboard is a standalone graphical controller integrated in FPGA and controlled via SPI protocol.

The DAVE dashboard basic idea is to provide graphic capabilities to applications where usually are not available. The target application of DAVE dashboard are the microcontroller based application which need a graphics controller:

- powerful (large icon library, multiple graphical layers, video scaling)
- easy to use via SPI
- easy to integrate in new and existing application



DAVE Video Dashboard (DDB) is a video display board used to drive a 7" LCD, connected via pin strip to an external CPU board. This CPU communicates with the dashboard via SPI (up to 4bits) protocol.

The SPI bus is used to provide connection with the FPGA, to transfer data to the OSD (Icon and pixels)

The DDB system provides the following functionalities:

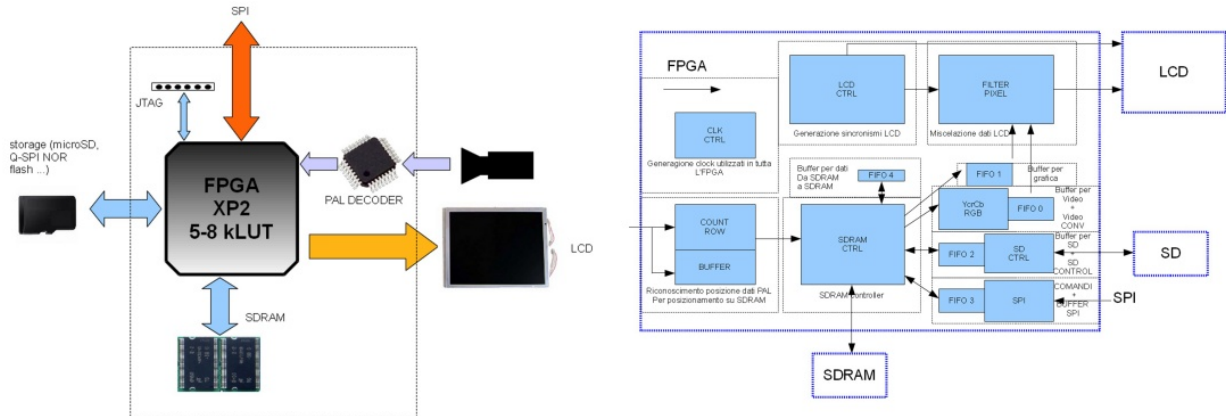
1. Two selectable PAL or NTSC video inputs
2. Up to 800x600 display resolution supported
3. Loading data from SDRAM to the external CPU and vice versa
4. Stand-by mode for low power consumption
5. On Screen Display (pixel mode and icon mode)

Typical field of application

- Video surveillance
- Automotive HMI
- Industrial HMI with no text (only images, videos and icons)
- Home automation
- Static control panels
- ...

Typical Display solutions

- Different electri standards (CMOS, 18-24bit, LVDS,...)
- ¼ VGA, VGA, SVGA, WSVGA, XGA, UGA, ...
- 4:3 or 16:9 formats
- PAL or NTSC
- ...



DAVE Video Dashboard shall be connected to an external CPU (typically a micro-controller). The image grabs can be stored in local RAM and/or in the uSD or in a different Mass storage connected via Quad SPI protocol.

The data displayed on the screen can be loaded from RAM and/or directly from the external CPU. The video input is feasible for both PAL and NTSC formats.

The communication protocol is easy to use and flexible for new application.

Main Features

Power supply	3.3V	Humidity	20 - 80%
Power consumption	R/W SDRAM: 450mA R/W SD: 500mA	Size	95 x 70 mm
Memory	up to 64MB SDRAM	SD support	micro SD slot, SPI communication protocol
Operating temp. range	5...50°C	Rohs compliance	Yes
Storage temp. range	-20...60°C	IEC compliance	Yes

DAVE dashboard order codes

Please contact our Sales Department (sales@dave.eu) for available model and prices.



All content and materials on this documents are provided "as is" without warranty of any kind. The entire risk as to the results and the performance of the information is assumed by the user, and in no event shall Dave be liable for any consequential, incidental or direct damages suffered in the course of using the information in this case history. Dave and its respective suppliers make no representations about the suitability of these materials for any purpose and disclaim all warranties and conditions with regard to these materials, including but not limited to, all implied warranties and conditions of merchantability, fitness for a particular purpose, title and non-infringement of any third party intellectual property right.

DAVE S.r.L

DAVE S.r.L.

Via Talponedo, 29/A

I-33080, Porcia (PN)

ITALY

Tel +39.0434.921215

Fax +39.0434.1994030

VAT number 01365430931

info@dave.eu

Sales information

Sales department:sales@dave.eu

Germany: Sunrise Systems Gmbh info@sunrise-systems.de

USA: Smart Embedded Systems baldev@smartembeddedsystems.com

United Kingdom & Ireland: Sarsen Technology Limited info@sarsen.net

Technical Support

Generic technical support | support@dave.eu

Zefeer technical support | support-zefeer@dave.eu

Neptune technical support | support-neptune@dave.eu

Qong technical support | support-qong@dave.eu

Aria technical support | support-aria@dave.eu

Lizard technical support | support-lizard@dave.eu

Naon technical support | support-naon@dave.eu

Maya technical support | support-maya@dave.eu

Diva technical support | support-diva@dave.eu

Dido technical support | support-dido@dave.eu



Dave S.r.l.

Via Talponedo, 29/A

33080 Porcia (PN) - ITALY

+39 0434 921215

www.dave.eu

wiki.dave.eu

sales@dave.eu