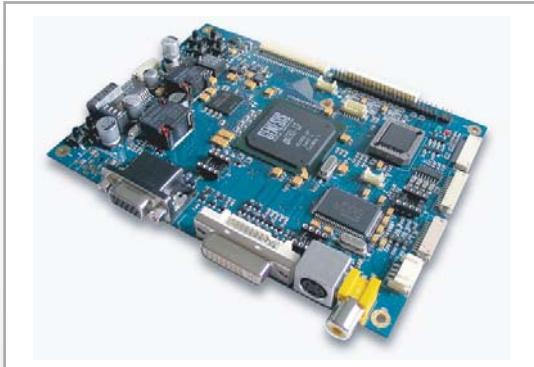


PRISMA II Performance at an affordable price!

Optimal for Multimedia Applications



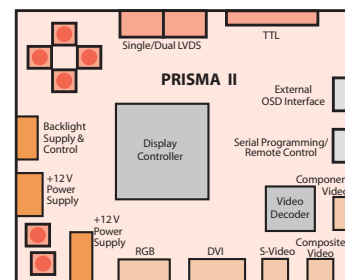
PRISMA II is a next gen development of our standard RGB/Video Converter Board PRISMA and is optimized for Multimedia Applications. It provides state-of-the-art features and a wide range of special functionalities and characteristics - and is still cost effective!

- ✓ **Component Video Input**
- ✓ **Supports resolutions up to WUXGA (1920 x 1200)**
- ✓ **Improved video quality and better deinterlacing**
- ✓ **Improved auto-adjust functionality**
- ✓ **Power Supply optionally up to 24 Volt**
- ✓ **Advanced HM-Interface optionally**
- ✓ **Different versions easily defined by the firmware**
- ✓ **RoHS compliant**
- ✓ **Alle Varianten mit Frame Buffer**

Technical Data

Interfaces (Input)	- RGB analog - DVI - Composite Video - S-Video - Component Video (YPbPr/RGB-Cs)
Interfaces (Output)	TTL, single/dual LVDS 18/24 Bit (conventional/non-conventional)
Resolution (min/max)	GM1501: VGA (640x480) to SXGA/WXGA (1280x1024/1366x768) GM1601: VGA (640 x 480) to WUXGA (1920 x 1200)
Scaler Chip	Genesis GM1501, GM1601
Optional Features	Tiling, Image Flip, Advanced HM-Interface, Remote Control over RS232
Compatibility	Mechanical dimensions and placement of plugs are compatible to those of the predecessor model

Power Supply Versions 12V, optionally up to 24V
Versions with different output settings
All versions with frame buffer



- Conversion** PRISMA controller boards enable TFT displays to be connected to standard graphics/video interfaces. Input signals like analog RGB, analog video or DVI are converted by PRISMA into TFT compliant TTL or LVDS signals.
- Scaling** If necessary, the scaler chip of the PRISMA is scaling the input signal up or down to the appropriate TFT resolution and thus adapting the image size to fit the displays active area.
- OSM** Besides scaling, the scaler chip provides an On-Screen-Menu (OSM) with numerous possibilities of individual settings like brightness and auto-detect/auto-adjust.
- Auto-detect** The auto-detect/auto-config function automatically detects analog RGB input signals and provides for an optimal appearance of images on the screen.
- Color depth** PRISMA converter boards support flat panels with 24-bit and 18-bit color depth.
- OSD board** Four pushbuttons are integrated on the board to set the display menu. An external OSD board is also available: A backwards compatible four-button board and a 6-button board, that is more convenient and easy to use. With an external infrared receiver, the OSM of the PRISMA II can be set via IR remote controller.

For our in-house developments we offer:

- ✓ **Longterm availability**
- ✓ **Product stability**
- ✓ **Compatibility of successor products in form, function and integration**
- ✓ **Technical support**

PRISMA converter boards are only available in combination with a TFT display, since they must be adapted and configured to the appropriate display. This applies for the jumper settings and that of the BIOS software.

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PRISMA II Special Features

User defined configuration of each input interface

The following parameters can be saved in a "User defined setting" for every input interface individually and separately:

- Brightness
- Contrast
- Saturation
- Hue
- Color Temperature
- Flesh Tones
- UserRed/Green/Blue
- Sharpness

User defined scaling

The scaling factor can be set for all input signals (analog RGB, DVI, Video) in the OSD Menu :

- 1:1** The input signal is shown 1:1 on the display, without any scaling ("A circle remains a circle").
- FILL** The input signal is scaled to the resolution of the display and is shown over the whole display ("A circle turns to an ellipse").
- ASPECT** The input signal is scaled non-linear and is converted from one aspect ratio to another: For example panorama scaling 'from 4:3 to 16:9' or 'from 16:9 to 4:3'.

Picture-in-picture (PIP)

With this functionality, a graphics input signal (RGB, DVI) and a video signal can be displayed at the same time on one display in three different ways:

- **Insertion of a video frame into a graphics desktop (RGB or DVI)**
The video frame can have three different sizes and is movable over the whole screen.
- **Insertion of a graphics desktop (RGB or DVI) into a video**
The graphics desktop can have three different sizes and is movable over the whole screen.
- **Video and graphics desktop adjacent (Picture-by-Picture / Side-by-Side)**
In this mode, the screen is split down the middle.

Infrared Remote Control

All functions of the PRISMA II can be controlled with an infrared remote controller.

Zoom and Pan

With this function you can zoom into an image and can move over the whole screen with the set zooming factor.

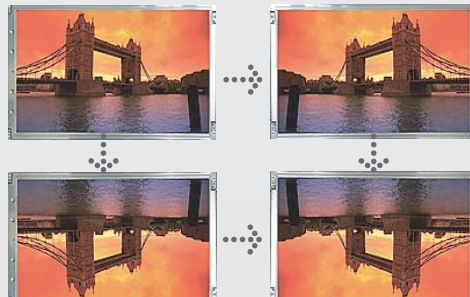
- OSD**
 - The position of the OSD on the display can be defined by the user.
 - You can choose between two OSD sizes.
 - The transparency of the OSD can be adjusted infinitely.

PRISMA II Optional Features

Tiling



Image Flip



Advanced HM-Interface

The Advanced Human Machine-Interface provides direct access to functions like "Zoom and Pan", without executing the OSD menu.

Moreover, 5 userdefined settings can be saved and executed directly by using a simple keypad.