

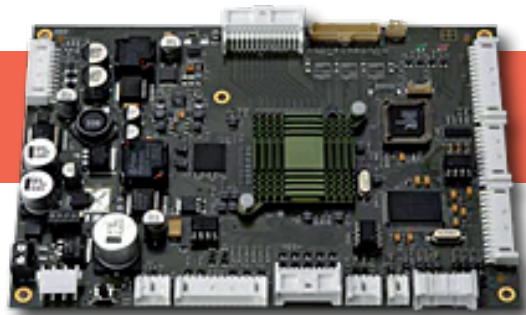
Industrial RGB/Video converter board



PRISMA II Ruggedized RGB/DVI

Multimedia performance with industrial standards

Based on our proven RGB converter board Prisma II we optimized the Prisma II ruggedized for the harsh requirements in industrial and automotive applications. Such applications usually can be found in environments with strong vibrations and wide temperature ranges. To withstand these conditions the whole board is designed to be extremely robust.



Industrial RGB/Video converter board
PRISMA II ruggedized - multimedia performance with industrial standards

Available Versions

Prisma Ruggedized Standard

PrismaRUG-10, RVD
0...+60°C
with Videodecoder
12V only
Order number: PR 01-151

Prisma Ruggedized Extended

PrismaRUG-20, RD
-20...+70°C
without Videodecoder
12V only
Order number: PR 01-160

Prisma Ruggedized Extended, Wide

PrismaRUG-30, RD
-20...+70°C
without Videodecoder
15...36V
Order number: PR 01-170

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 the Firmware.

For Prisma II ruggedized we offer:

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

At a glance:

- Wide operating range -20°C to +70°C
- Input voltage range: +12V to +36V
- All industrial lockable connectors
- Rugged mechanics
- Input signals: RGB, DVI, optional: S-Video, Composite Video

Features

Conversion	PRISMA controller boards enable TFT displays to be connected to standard graphics interfaces. Input signals like analog RGB 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 is adapting the image size.
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 is automatically detecting the input signals and provides best settings 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	Six pushbutton external OSD board is available to set the display menu. With an external infrared receiver the OSM can also be set via IR remote control.

Technical Data

Interfaces (input)	RGB analogue (CRT) DVI OSM , optional external OSM board Optional: S-Video, Composite Video
Interfaces (output)	TTL and single/dual LVDS 18/24 Bit (conventional/non-conventional)
Resolution (min/max)	VGA (640 x 480) up to WUXGA (1920 x 1200)
Scaler Chip	Genesis GM1501/GM1601
Power supply	12V or 15V up to 36V, peak voltage up to 57V

PCB-Layout

