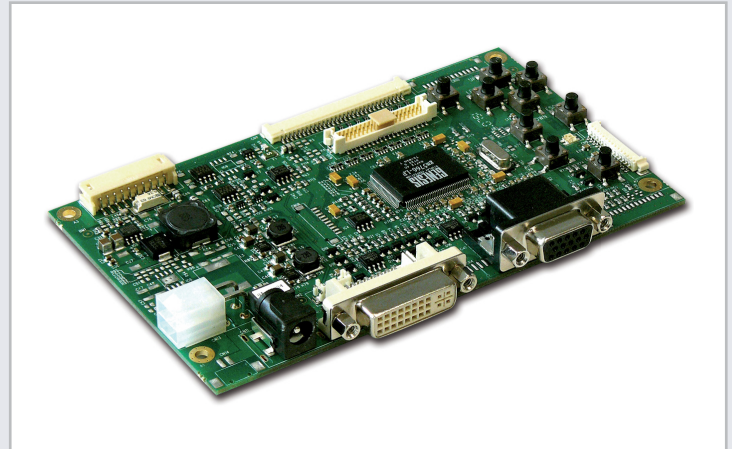


Design your customer's experience

d.scale is a scaler board designed to act as a full monitor interface providing high-quality images for LCD TFT panels. It provides an analog and digital video interface, performs image scaling on 24-bit RGB data stream and supports almost any LCD TFT display from VGA up to SXGA & SXGA+ / UXGA & WSXGA+.

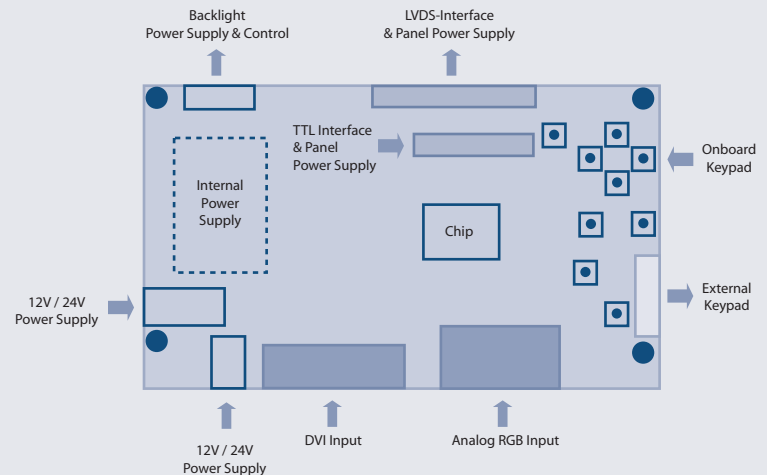
d.scale board is a member of the **device** family. As any member of this family, which is developed by Display Solution AG, this board was designed to meet the extended requirements of embedded applications. A well-balanced hard- and software combination affords a feature rich product at a competitive price.



Features

- ✓ Wide supply voltage range: 12V / 24V
- ✓ Automatic selection of panel supply voltage (3.3V / 5V)
- ✓ Enhanced brightness control range if backlight inverters with small dimming range are used
- ✓ Extended durability - avoidance of components with short life spans like e.g. electrolytic capacitors
- ✓ Improved EMI behaviour - special EMI measures facilitates design-in procedure
- ✓ Reduced power dissipation by using switching regulators with very high efficiency

- Analogue RGB input
- Detection and configuration of analogue RGB input
- Ultra reliable DVI input
- RealColour™ Technology
- Intelligent Image Processing™
- On screen display 6-button (4-button optional)
- Output interfaces:
 - LVDS (single/dual channel)
 - TTL (24bit 3.3V)



Specification

Supported Input Resolutions

VGA (analog RGB)

- 640x480 to 1280x1024 / 1440x900 (Genesis gm5726)
- 640x480 to 1600x1200 / 1680x1050 (Genesis gm5766)

DVI (single channel)

- 640x480 to 1600x1200

Supported Panel Resolutions

LVDS / TTL

- 640x480 to 1280x1024 / 1440x900 (Genesis gm5726)
- 640x480 to 1600x1200 / 1680x1050 (Genesis gm5766)

Electrical Characteristics

- Input Voltage: 8V-26V (Backlight voltage = Input Voltage)
- Power Consumption: ~5W (max)

Environmental

- Operating Temperature: 0°C to 70°C
- Relative Humidity: 5%-85%, non condensing

