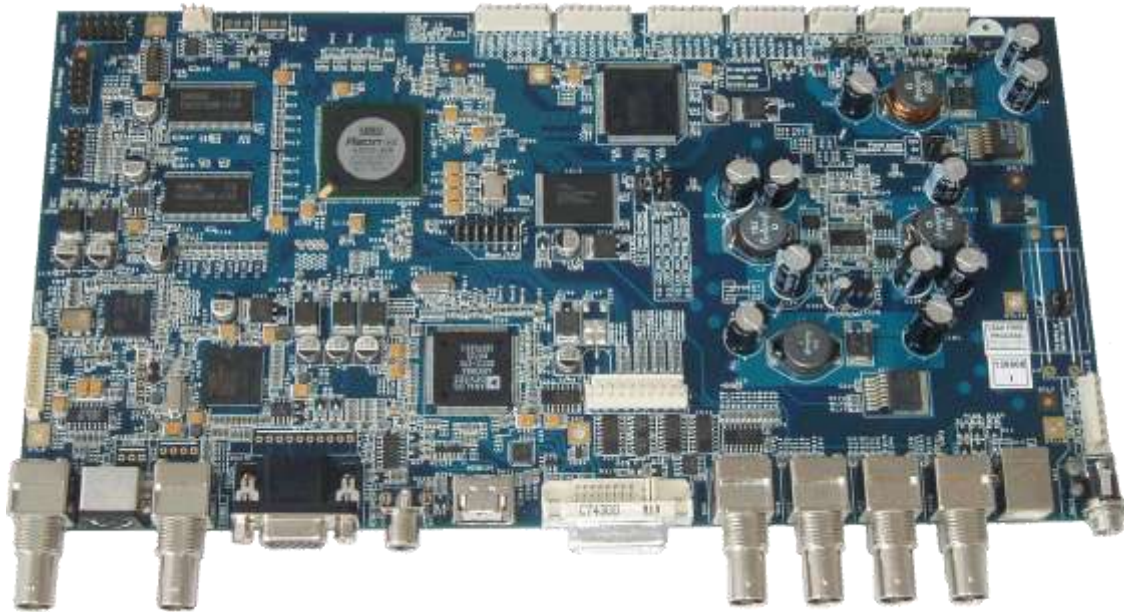


PremierView6

HQV™ inside your display

Harnessing the power of the Reon™ video processor from Silicon Optix, running state of the art HQV algorithms with expertly designed hardware and firmware from Calibre, PremierView6 (PV6) provides stunning image quality and product design flexibility for OEM applications.

PV6 gives low-medium volume OEMs access to Reon HQV technology which would otherwise not be available due to minimum order volume requirements from the chip manufacturer and prohibitive technical development costs. PV6 offers fast time to market, low up-front cost.



- Motion adaptive per pixel video de-interlacing, HD & SD.
- Multi-directional diagonal de-interlace filter.
- Automatic 3:2 & 2:2 pull-down detection with automatic film, video and video over film detection
- Adaptive image contrast Enhancement
- Edge anti-aliasing
- 4-field full resolution SD & HD processing
- 4D Motion and Noise Adaptive HQV noise reduction for SD including CODEC noise reduction for mosquito and block noise, spatial and temporal noise reduction.
- 10-bit signal inputs, 12-bit accurate internal processing
- PIP, POP, PAP
- Selectable processing versus latency: best picture, normal and low latency modes
- Latency as low as 0.25-frame for progressive inputs, 1.25-frames for interlaced inputs
- Flexible colour calibration controls
- Gamma controls
- Inputs up to 1080i and 1080p
- Outputs up to 1080p / WUXGA
- LVDS output, 10 or 8 bit, single or dual pixel
- On-board LCD panel psu saves cost of external panel power regulator even in large displays. PSU can source up to 5A at 3V3, 5V or 12V for large 1080p panels.
- On-board control and sequencing signals for backlight inverter.
- Easy to navigate self-explanatory OSD menus
- RS232 remote control
- Optional IR remote control
- Simple keypad, or complex I²C-connected keypad supported
- USB port for in-field firmware updates
- Can be custom-programmed with customer logo on menu and start-up screen

Designed specifically for integration within the display device, PV6 enhances picture quality on LCD displays for a better viewing experience in many applications. Variants of PV6 are available specifically for medical, industrial, military, broadcast and consumer applications. Full or partial customisation is also undertaken: OSD, functionality, layout and connectivity changes available.

HQV™ inside your display

Inputs

Video – baseline configuration:

1x Composite Video CVBS (NTSC, PAL & SECAM) via BNC jack
1x YC/S-Video via 4 pin mini DIN
1x Component analog video YPbPr(s) or RGBS via 3 or 4 x BNC jack
1x HDMI1.3 with HDCP, 8/10/12 bit video compatible, 10-bit internal processing depth. Audio strip-off of SPDIF compatible formats.
1x DVI with HDCP.
1x SVGA analog via 15HDD.

Optional video inputs:

External

1 x HD-SDI, accepts SD and HD SDI signals via BNC.

Internal

1x Composite Video internal to display, for connection to third-party tuner.
1x YC/S-Video internal to display, for connection to third-party tuner.
1x Component internal to display, for connection to third-party tuner.
1x HDMI/DVI internal to display, for connection to third-party media server, disc player or fiber receiver.

Supported video formats:

HD 720p, 1080i, 1080psf, 1080p23.97/24/25/30, 1080p30, 1080p50, 1080p59.94, 1080p60
ED 480p, 576p (not via SDI)
SD 625i (576i), 525i (480i)
VESA graphics formats from 640x480 to 1920x1200 (with reduced blanking for 1920x1200 and 1600x1200 modes)

Multi standard support for CVBS & YC in PAL, NTSC, SECAM formats.

Outputs

8/10 bit single/dual channel LVDS for image data (or internal DVI in place of LVDS, subject to MOQ)

I²C for display control signals

1x S/PDIF digital audio via RCA

Panel power PSU with power sequencing, selectable 3V3, 5V or 12V output up to 5A.

Inverter brightness and enable controls with power sequencing.

User Controls

Remote control via IR remote, RS232 serial control. Optional TCP/IP.

Keypad connection via simple contact closures or I²C-bus.

USB port for uploading software updates and new features.

Power Requirements

12-24VDC, +/- 10%, 1.5A typical, excluding panel power.

Warranty

1-year return to base warranty covers parts and labour, shipping excluded.

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