



Datasheet

AIS-ADVDHPMV-001

AD Board with VGA/DVI/HDMI/DP input, LVDS/Vx1 Output



AIS-ADVDH0ML-011

UHD LCD Scalar Controller Board

The AIS-ADVDHPMV-001 is a highly integrated TFT flat panel interface board that allows connecting analog 15Pin RGB, DVI, HDMI 1.4a and Display Port 1.2a source with TFT panels.

Key Features

- Up to 3840 x 2160 input / Up to 3840 x 2160 panels
- HDMI 1.4a, DisplayPort 1.2a, DVI-I Dual Link
- V-by-One, LVDS panel connection @60Hz
- Full frame memory buffer for enhanced image control
- RS-232/485/I2C for commands & control, video wall
- Firmware updated by USB

Panel Connectivity

LVDS (Dual Channel)	up to 3840 x 2160 @60Hz
Panel Resolutions:	4096 x 2160, 3840 x 2160, 2560 x 1440/1600, 1920 x 1200, 1920 x 1080
Customization:	Support customize resolution i.e. 1280 x 320

Input

HDMI 1.4	60Hz up to 2560 x 1600 60Hz up to 1920 x 1080
Display Port 1.2a	60Hz up to 3840 x 2160 60Hz up to 2560 x 1600
VGA	60Hz up to 1920 x 1200 75Hz up to 1400 x 1050 75Hz up to 1440 x 900

Reliability

Operating Temp:	0~45°C
Storage Temp:	-10°C~60°C
Operating Humidity:	0% ~ 80% (non-condensing)
Storage Humidity:	0% ~ 90%
Warranty:	1 years

Features

Colors:	Up to 10 bits per color, i.e. 1.06 billion colors
Function Display:	On Screen Display (OSD) menu
Function Control:	External buttons, Serial Port
Image Control:	Brightness, Contrast, Sharpness, Gamma, Color mode, Color temperature
Image Scaling:	Up / Down scaling to fit input to panel resolution
Other Features:	Dynamic system menu to fill the screen, Picture in Picture (PP), Picture by Picture (PbP), Ram buffer for FRC image enhance
Communication:	RS-232/RS485(Optional)
Input Power:	12VDC ±5%, 15W
Panel Power:	Supports 3.3V, 5V, 12V panels
Panel Signal:	V-by-One, LVDS
Backlight Driver:	Backlight on/off, PWM
Plug & Play:	DDC 1,2/b compatible
Status Indicator:	Dual color LED support
Audio:	Digital Audio line-out

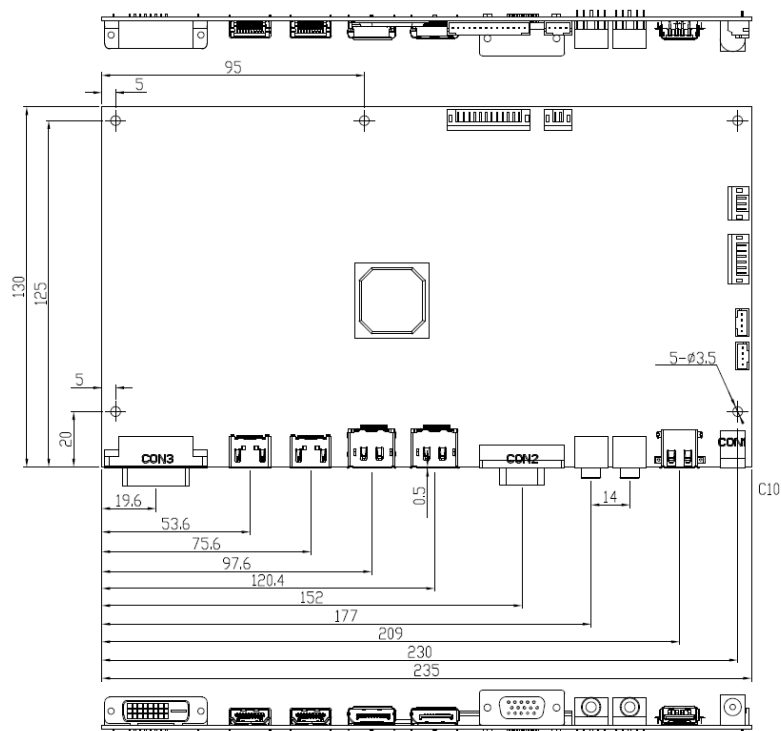
Custom Splash-Screen: The AIS-ADV0HPML-001 supports custom splash- screen when powering on. This requires custom firmware.

Firmware Upgrade: The firmware version can be upgraded directly from a PC running Windows. Contact us for more detail

AIS-ADVDH0ML-001

AD Board with VGA/DVI/HDMI input, LVDS Output

Mechanical Drawing



Connector Definitions

CON1	DC Jack/2.5mm +12Vdc Input
J1	8PIN/2.0mm +12Vdc Input & BKL Control
J2	5PIN/2.0mm +5VSTB Input & Power Module On/Off Control
J3	14PIN/1.25mm KEY PAD & IR
J4	4Pin/1.25mm Light Sensor
J5	6PIN/2.0mm RS232 & RS485 Control
J6	4PIN/2.0mm Audio_AMP_Left Output
J7	4PIN/2.0mm Audio_AMP_Right Output
J9	6PIN/2.0mm Panel Power Selection
J11	51PIN/0.5mm V By One Signal
J12	41PIN/0.5mm LVDS Signal
J13	41PIN/0.5mm LVDS Signal

Ordering Options

AIS-ADVDHPMV-001	P/N: AIS-ADVDHPMV-001
OSD Key-pad 7-key	P/N: AIS-ADKP007-001
OSD/IR cable 20cm/15cm	P/N: AIS-CAK2003-001
IR remote controller	P/N: AIS-OTIR001-001
Backlight driving board	[subject to panel model]
Sensor kit	

Available Resource

- 2D (PDF)
- 3D (SLDPRT)
- Product approval sheet
- Custom engineering: Splash screen, OSD menu, coating, & more...

** Available on request



The QR code above links to the product page on the website