

# PI-DK156

## Premio 15.6" Industrial Display Kit

Premio PI-DK series are a family of wide operating temperature industrial grade LCD display kits with sizes ranging from 7" to 24" and come with or without touch screen integrated. It also comes with the service options of high brightness and optical bonding for harsh / outdoor environment applications.

### FEATURES

- 15.6" LCD with 1366 x 768 HD or 1920 x 1080 FHD resolution
- Wide operating temperature support
- Touch option: non-touch or 10 points Projected Capacitive multi-touch options
- LVDS interface
- LED driver board built in
- Touch screen/touch controller included
- Optional A/D kit, LVDS/backlight cables, key pad, power supply
- Optional optical bonding service



### SPECIFICATIONS

| LCD                   |                                                                                                    |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Screen Size           | 15.6"                                                                                              | 15.6                                                                                               |
| Resolution            | 1366 x 768 HD                                                                                      | 1920 x 1080 FHD                                                                                    |
| Display Active area   | 344.23 mm x 193.54 mm                                                                              | 344.16 mm x 193.59 mm                                                                              |
| Colors                | 262k / 16.7M                                                                                       | 16.7M                                                                                              |
| Backlight Unit        | LED                                                                                                | LED                                                                                                |
| Brightness            | 300 cd/m2                                                                                          | 400 cd/m2                                                                                          |
| Contrast Ratio        | 500:1                                                                                              | 700:1                                                                                              |
| Response Time         | 21 ms                                                                                              | 8ms                                                                                                |
| Viewing Angle         | 176/176                                                                                            | 160/140                                                                                            |
| Signal Interface      | LVDS                                                                                               | LVDS                                                                                               |
| Power Consumption     | 10.95W                                                                                             | 10.5W                                                                                              |
| Dimension             | 363.8 mm x 215.92 mm x 16.85 mm                                                                    | 363.8 mm x 215.9 mm x 9.3 mm                                                                       |
| Weight                | 1190 g (typ.)                                                                                      | 940 g (typ.)                                                                                       |
| Touch                 |                                                                                                    |                                                                                                    |
| Touch options         | non-touch<br>Projected Capacitive Multi-touch (PCAP)                                               | non-touch<br>Projected Capacitive Multi-touch (PCAP)                                               |
| Surface Hardness      | ≥ 3H (non-touch); ≥ 6H (PCAP touch)                                                                | ≥ 3H (non-touch); ≥ 6H (PCAP touch)                                                                |
| Transparency          | ≥ 80%                                                                                              | ≥ 80%                                                                                              |
| Environment           |                                                                                                    |                                                                                                    |
| Operating Environment | Non-touch: 0 °C ~ 60 °C<br>PCAP touch: 0 °C ~ 60 °C<br>Humidity 20% RH ~ 80% RH (Non Condensing)   | Non-touch:-10 °C ~ 70 °C<br>PCAP touch:-10 °C ~ 70 °C<br>Humidity 20% RH ~ 80% RH (Non Condensing) |
| Storage Environment   | Non-touch:-20 °C ~ 60 °C<br>PCAP touch:-20 °C ~ 60 °C<br>Humidity 10% RH ~ 90% RH (Non Condensing) | Non-touch:-20 °C ~ 70 °C<br>PCAP touch:-20 °C ~ 70 °C<br>Humidity 10% RH ~ 90% RH (Non Condensing) |
| Warranty              |                                                                                                    |                                                                                                    |
| Warranty              | 2 year standard warranty                                                                           |                                                                                                    |

### CONTROLLER PINOUT

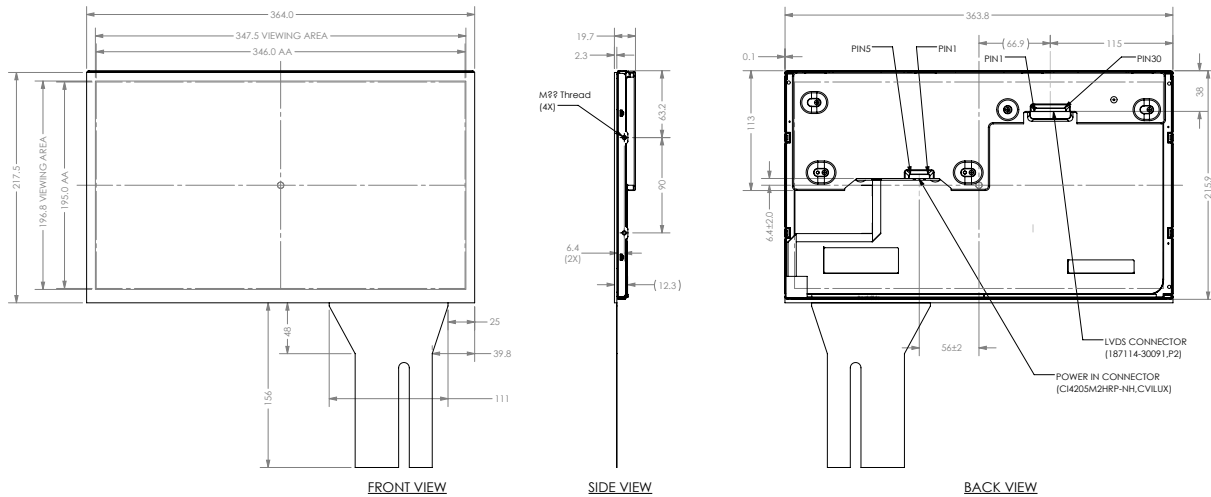
| Projected Capacitive Touch Pinout |                                                          |
|-----------------------------------|----------------------------------------------------------|
| J1                                | Pin 1: GND, Pin 2-79: RX77-RX0, Pin 80: GND              |
| J2                                | Pin 1: GND, Pin 2-3: NA, Pin 4-49: TX45-TX0, Pin 50: GND |
| J3                                | Pin 1: VDD, Pin 2: USB_D-, Pin3: USB_D+, Pin 4-5: GND    |



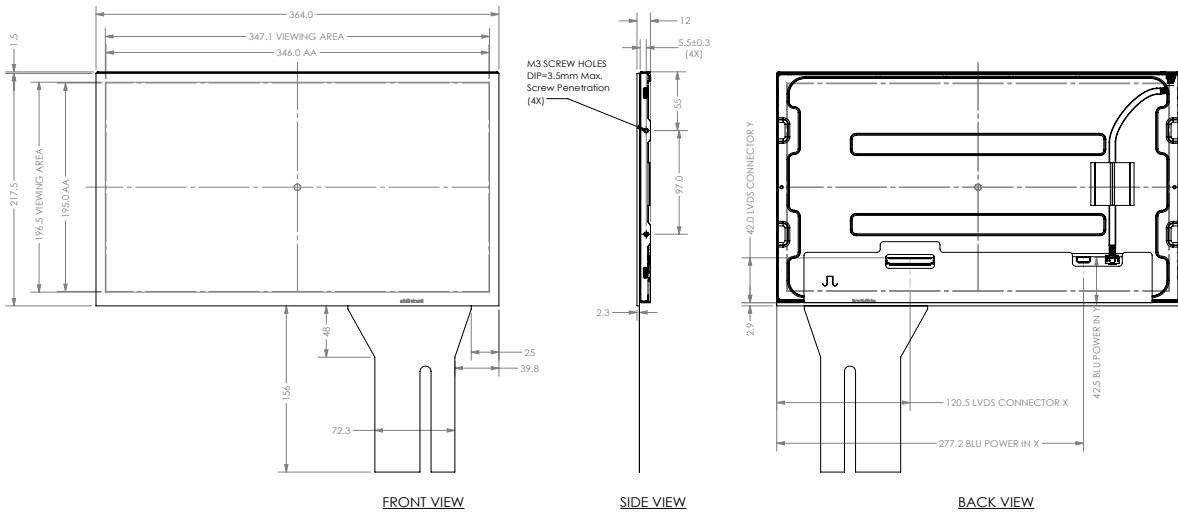
## DIMENSIONS

PI-DK156P30HD01

Unit: mm



PI-DK156P40FH01



## AVAILABLE MODELS

| MODEL NO.       | DESCRIPTION                                                               |
|-----------------|---------------------------------------------------------------------------|
| PI-DK156N30HD01 | 15.6" 1366x768, 300nits, 0~60C, Non-Touch Insudtrial Display Kit          |
| PI-DK156P30HD01 | 15.6" 1366x768, 300nits, 0~60C, Projected Capacitive Touch Display Kit    |
| PI-DK156N40FH01 | 15.6" 1920x1080, 400nits, -10~70C, Non-Touch Insudtrial Display Kit       |
| PI-DK156P40FH01 | 15.6" 1920x1080, 400nits, -10~70C, Projected Capacitive Touch Display Kit |

## PACKING LIST

- 1 x 15" LCD Display Kit
- 1 x Touch Controller
- 1 x USB Cable (touch interface)

## OPTIONAL BUY

| MODEL NO. | DESCRIPTION                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PSPKIT006 | A/D Kit for PI-DK156, 1366 x 768 HD. A/D board with -20 °C ~ 70 °C wide operating temp, VGA + DVI + HDMI Interface , no audio. OSD, LVDS/BL cables included.   |
| PSPKIT007 | A/D Kit for PI-DK156, 1920 x 1080 FHD. A/D board with -20 °C ~ 70 °C wide operating temp, VGA + DVI + HDMI Interface , no audio. OSD, LVDS/BL cables included. |
| PSPPOW003 | 12V, 60W Power Supply                                                                                                                                          |