

# P712

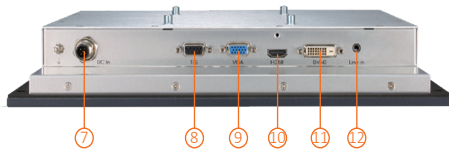
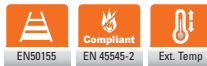
12.1" XGA TFT LCD Railway Touchscreen Monitor (-25°C to +55°C)



1. Menu
2. SEL+
3. SEL-
4. Exit
5. Power LED
6. Power switch

## Features

- EN 50155 and EN 45545-2 certified railway monitor
- 12.1" high brightness XGA TFT touchscreen LCD
- Wide viewing angle and a high brightness of 600 nits
- Supports VGA, DVI-D, and HDMI
- Light sensor for auto-dimming
- Typical 24 to 110 VDC wide power input
- -25°C to +55°C wide temperature range
- Supports 5 OSD keys on the front bezel



- |                                        |                 |
|----------------------------------------|-----------------|
| 7. DC power input                      | 11. 1 x DVI-D   |
| 8. 1 x RS-232 (touch & remote control) | 12. 1 x Line-in |
| 9. 1 x VGA                             | 13. Speaker     |
| 10. 1 x HDMI                           |                 |



▲ Side view



▲ Rear view



▲ Front view

## Introduction

The EN 50155 certified railway touchscreen monitor P712 adopts a 12.1-inch XGA TFT LCD with 600 nits brightness and a 5-wire resistive touchscreen with IP65-rated aluminum front bezel to provide protection against liquid damage and user friendly control interface.

### Wide Temperature (-25°C to +55°C)

The Axiomtek 12.1-inch railway touchscreen monitor supports a wide temperature range from -25°C to +55°C. Its fanless cooling system and compact designs are suited for rolling stock applications as well as other harsh environments.

### 600 nits High Brightness with Wide Viewing Angle

The railway-grade P712 adopts a high brightness of 600 nits 12.1-inch LCD with sunlight readable technology. The screen is legible even under strong sunlight. Additionally, with its wide viewing angle feature, users won't miss any information.

### Anti-vibration for Railway

With the anti-vibration design and EN 50155 and EN 61373 Cat. 1 Class B complied, the rugged 12.1" railway touchscreen monitor can work perfectly on a train.

## Specifications

|                       |                                                                     |                                    |
|-----------------------|---------------------------------------------------------------------|------------------------------------|
| Front Bezel           | IP65-rated aluminum front bezel and IP40-rated rear protection      |                                    |
| LCD Panel             | Display Type                                                        | 12.1" XGA TFT LCD                  |
|                       | Max. Resolution                                                     | 1024 x 768                         |
|                       | Max. Colors                                                         | 16.7M/262k                         |
|                       | Active Area (mm)                                                    | 245.76 (H) x 184.32 (V)            |
|                       | Pixel Pitch (mm)                                                    | 0.24 (H) x 0.24 (V)                |
|                       | Response Time                                                       | 25ms                               |
|                       | Backlight                                                           | LED                                |
|                       | Backlight MTBF                                                      | 50,000 hrs                         |
|                       | Viewing Angle (H/V)                                                 | 178°/178°                          |
|                       | Contrast Ratio                                                      | 1000 (TYP.)                        |
|                       | Brightness (cd/m <sup>2</sup> )                                     | 600 nits                           |
| Display Control       | OSD (on screen display)                                             |                                    |
| Display Mode          | VGA 640 x 480 (60/72 Hz)                                            |                                    |
|                       | SVGA 800 x 600 (60/72 Hz)                                           |                                    |
|                       | XGA 1024 x 768 (60/70 Hz)                                           |                                    |
| Input Signal          | VGA                                                                 |                                    |
|                       | HDMI                                                                |                                    |
|                       | DVI-D                                                               |                                    |
|                       | Line-in                                                             |                                    |
|                       | Multi-function of T/S & remote control                              |                                    |
| I/O Connectors        | 1 x M12 A-coded Male 5-pin DC-in                                    |                                    |
|                       | 1 x Multi-function of T/S & remote control                          |                                    |
|                       | 1 x DVI-D                                                           |                                    |
|                       | 1 x VGA                                                             |                                    |
|                       | 1 x HDMI                                                            |                                    |
|                       | 1 x Line-in                                                         |                                    |
| Power Supply          | Typical 24 VDC to 110 VDC                                           |                                    |
| Power Consumption     | 24-110VDC, 0.88-0.19A                                               |                                    |
| Touchscreen           | Thickness                                                           | Resistive: 2.2 mm                  |
|                       | Light Transmission                                                  | Resistive: 80%                     |
|                       | Touch Life                                                          | Resistive: 35 million touches      |
|                       | Controller Interface                                                | RS-232 D-type 9-pin male connector |
| Dimensions            | 330 mm (12.99") (W) x 50.2 mm (1.98") (D) x 245 mm (9.65") (H)      |                                    |
| Packing Dimensions    | 520 mm (20.48") (W) x 196 mm (7.72") (D) x 552 mm (21.74") (H)      |                                    |
| Weight (net/gross)    | 2.3 kg (5.07 lb)/4.36 kg (9.62 lb)                                  |                                    |
| Operating Temperature | -25°C to +55°C (-13°F to +131°F)                                    |                                    |
| Relative Humidity     | 20% to 90% @ +40°C, non-condensing                                  |                                    |
| Certifications        | CE, FCC, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified |                                    |

## Ordering Information

|                                 |                                                                          |
|---------------------------------|--------------------------------------------------------------------------|
| P712-RS1-M<br>(P/N: E226712100) | 12.1" XGA LCD railway touchscreen monitor with 24 to 110 VDC power input |
|---------------------------------|--------------------------------------------------------------------------|

\*Specifications and certifications may vary based on different requirements.

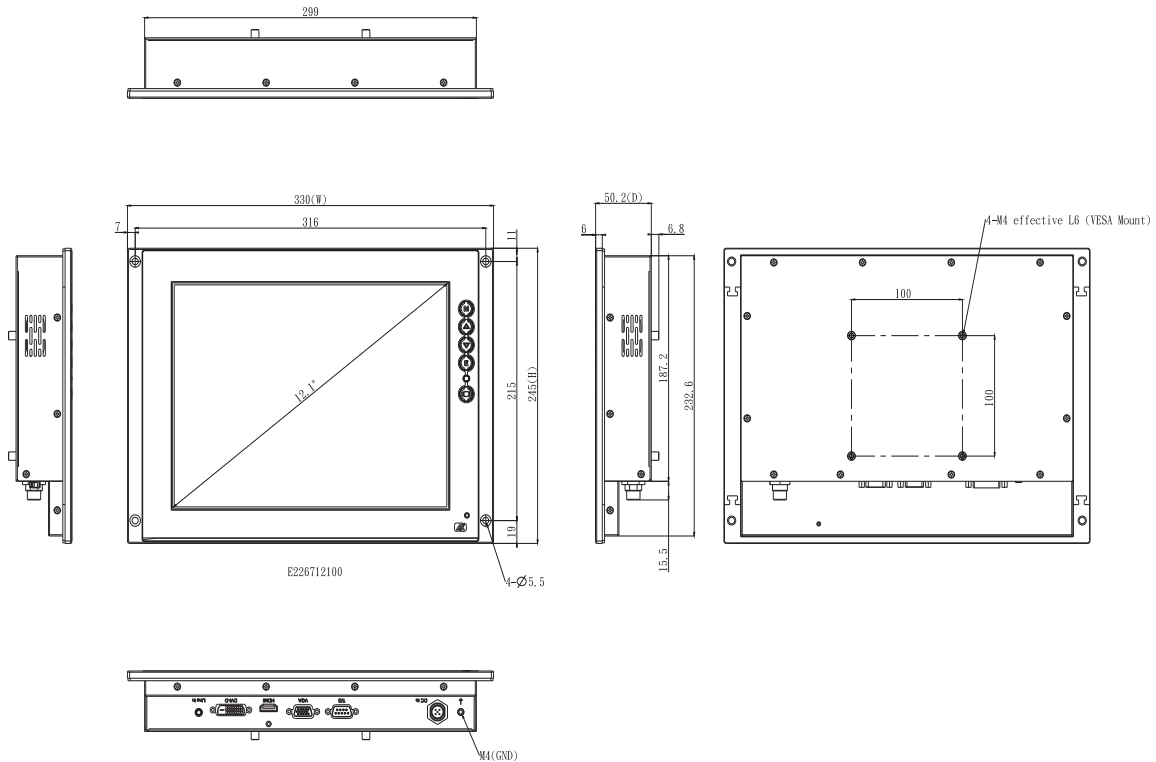
## Packing List

|                                        |  |
|----------------------------------------|--|
| 1 x P712 unit                          |  |
| 1 x RS-232 cable (for resistive touch) |  |
| 1 x HDMI bracket                       |  |
| 1 x Cable tie                          |  |
| 1 x Cable clamp                        |  |
| 2 x Screw M3*5L                        |  |

## Optional Accessories

|              |                                         |
|--------------|-----------------------------------------|
| 594B8120B30E | DC in cable M12 female 5P 180cm w/o ACC |
|--------------|-----------------------------------------|

## Dimensions



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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