

# GOT712S-837

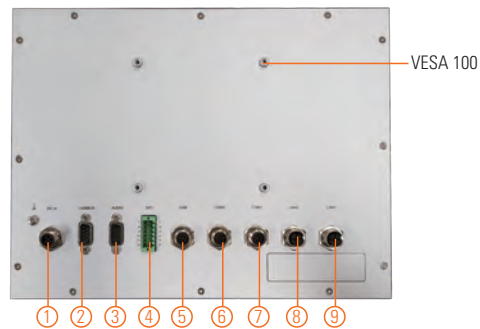
12.1" XGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom™ Processor E3845 1.91 GHz (-40°C to +70°C)

## Features

- Sunlight readable 12.1" XGA TFT LCD with a high brightness of 800 nits
- Fanless with Intel® Atom™ processor E3845 1.91 GHz
- All lockable connectors design
- Auto-dimming for different environments
- -40°C to +70°C wide temperature range
- Typical 24 to 110 VDC power input, EN 50155 Class S3 20ms power interruption protection
- EN 50155, EN 45545-2 certified



▲ Side view



1. DC power input
2. CANbus with isolation 1.5kV
3. Audio (line-in, mic-in, speaker-out or line-out)
4. DIO (6-in/2-out with isolation 1.5kV)
5. 2 x USB 2.0
6. 1 x RS-232/422/485 with isolation 1.5kV
7. 1 x RS-232/422/485 with isolation 1.5kV
8. 1 x GbE with isolation 1.5kV
9. 1 x GbE with isolation 1.5kV

## Introduction

The EN 50155 railway touchscreen panel PC, GOT712S-837, is equipped with a 12.1-inch XGA TFT LCD with high brightness LED backlight (800 nits), which allows a train operator to easily read any operational status messages, even under direct sunlight. Design for ease of use and maintenance, this all-in-one 12.1" railway touch panel PC also has an alternative keypad control on the front bezel for easy access and cleaning purposes. This feature-rich panel PC has an IP65-rated front bezel, M12 connectors and EN 50155 certified.

### Wide Temperature (-40°C to +70°C)

The Intel® Atom™-based railway panel PC, GOT712S-837, applies unique extended temperature technology with wide temperature range support as well as fanless operation. It also has a high brightness display and compact design for transport heavy-duty environment.

### Designed for Railway Application

The Axiomtek GOT712-837 is particularly suitable for demanding HMI applications in the railway sector, including tasks like monitoring and controlling speed, temperature, and security, or for fleet management. To ensure the reliable operation in a variety of different locations, the 12.1-inch railway panel PC supports various mounting options: panel mount, wall mount, VESA arm and desktop stand. Moreover, it is also ready for Windows® 7, 8.1 and 10.

## Specifications

|             |  |
|-------------|--|
| Front Bezel | IP65, NEMA 4 rugged protection, aluminum front bezel, rest area of enclosure is IP40 rated |
| LCD Panel   | Display Type 12.1" TFT LCD   |
|             | Brightness (cd/m <sup>2</sup> ) 800 nits   |
|             | Resolution 1024 x 768  |
|             | Viewing Angle (H/V) 160°/160°  |
| Main System | CPU Intel® Atom™ processor E3845 1.91 GHz (Bay Trail)                                      |
|             | Chipset SoC integrated   |
|             | System Memory DDR3L 4GB onboard  |
|             | BIOS AMI   |
|             | Storage 16GB flash onboard 1 x mSATA   |
|             | Watchdog Timer 255 levels, 1 to 255 seconds  |
|             | Onboard Graphics Integrated in Intel® GFX  |

Specifications

|                       |  |
|-----------------------|--|
| I/O Connector         | 2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV)<br>2 x Isolated M12 X-coded GbE (isolation level 1.5kV)<br>1 x M12 A-coded USB 2.0 (2 port signal)<br>1 x M12 A-coded DC-in<br>1 x DB15 audio line-in, mic-in, speaker-out or line-out<br>1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV)<br>1 x Isolated DB9 CANbus (isolation level 1.5kV) |
| Expansion Interface   | 2 x PCI Express Mini Card slot   |
| Flat Panel            | Alternative 5-wire resistive touchscreen or keyboard   |
| Power Supply          | Typical 24 to 110 VDC, working range 16.8 to 137.5 VDC, EN 50155 S3 20ms power interruption protection   |
| Power Consumption     | 24-110Vdc@1.7-0.32A  |
| Dimensions            | 330 mm (13") (W) x 61.5 mm (2.42") (D) x 245 mm (9.65") (H)  |
| Packing Dimensions    | 520 mm (20.47") (W) x 196 mm (7.72") (D) x 552 mm (21.73") (H)   |
| Weight (net/gross)    | 2.95 kg (6.50 lb)/5.35 kg (11.79 lb)   |
| Operating Temperature | -40°C to +70°C (-40°F to +158°F)   |
| Relative Humidity     | 10% to 95% @ +40°C, non-condensing   |
| Certifications        | CE, EN 50155, EN 50121-3-2, EN 61373, EN 45545-2   |

\* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

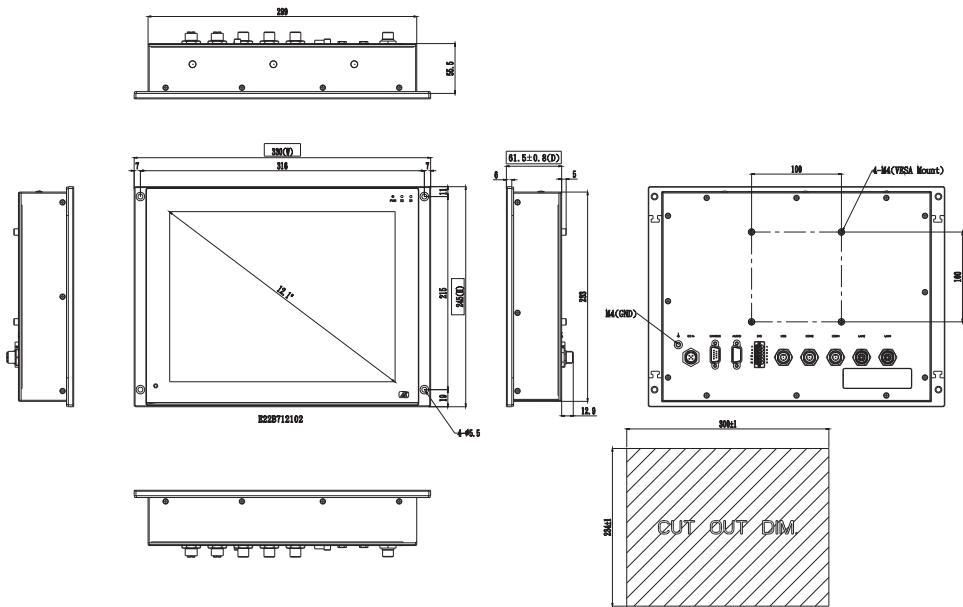
Packing List

- 1 x GOT712-837 unit
- 1 x Phoenix connector



▲ Touch without keypad version

Dimensions



Ordering Information

|                                  |   |
|----------------------------------|---|
| <b>24 to 110 VDC Power Input</b> |   |
| GOT712S-837-R-E3845-24-110VDC    | 12" XGA railway fanless touch panel computer with Intel® Atom™ E3845, sunlight readable LCD (800 nits), 5-wire resistive touchscreen and 24 to 110 VDC power input, S3 20ms power interruption protection |
| (P/N: E22B712102)                |   |

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

Optional Accessories

|              |  |
|--------------|--|
| 822B7100140E | GOT712 3G+GPS kit                                  |
| 8812B7100A0E | GOT712 Wi-Fi kit                                   |
| 594B8122820E | M12 A-coded USB cable                              |
| 594B7102100E | RS-232 cable                                       |
| 594B7102700E | M12 X-coded LAN cable                              |
| 594B7100B00E | M12 DC-in power cable with ACC signal, length 1.8M |

Optional EOS Installation

|                   |
|-------------------|
| WES 7             |
| WE8S              |
| Windows® 10 (IoT) |

Optional OS Installation

|                |
|----------------|
| Windows® 7     |
| Windows® 8/8.1 |
| Windows® 10    |