

Dimensions of Dual-Port Information Panels for Railway Communication

Article Overview

Dual-port information panels for railway communication are typically modular, with sizes customizable according to installation needs, often built from modules ranging from 20 to 50 points, allowing flexible assembly for full-width or dual-display configurations.

Modular Design and Size

Dual-port panels are generally assembled from separate mounting modules, which can vary in size depending on the manufacturer and the intended application . For example, GEMA s.r.o. produces LED panels with dot spacings from 3 to 30 mm, and the modules themselves typically range from 20 to 50 points, allowing panels to be scaled to the desired width and height for station platforms or onboard displays . This modular approach enables dual-port configurations where two display sections are integrated side by side or stacked vertically.

Display Technology

These panels can use full-color RGB LEDs or LCD backlit with LEDs, providing high contrast and visibility in outdoor or indoor railway environments . LED panels are preferred for outdoor installations due to their brightness and durability, while LCD panels are often used for indoor or sheltered areas. Dual-port panels can display departure, arrival, platform information, and additional passenger messages, with optional features like clocks, automatic announcements, and accessibility functions for visually impaired passengers .

Connectivity and Power

Dual-port panels support serial interfaces, Ethernet, or wireless GSM modules for data transmission . They are typically powered by 230V AC, with optional backup power from solar or public lighting for off-grid installations. Some dual-port panels also include USB ports or headphone jacks for passenger interaction, particularly in onboard railway applications .

Customization and Compliance

Manufacturers like Inelmatic and duagon provide ruggedized dual-port panels designed to withstand vibration, shock, and extreme temperatures, complying with EN50155 and EN45545 standards for railway safety . The modular design allows panels to be tailored to specific platform widths, train interiors, or station layouts, ensuring optimal visibility and integration with existing railway communication systems.

Summary

Dimensions of Dual-Port Information Panels for Railway Communication

- o Module size: Typically 20-50 points per module, scalable for dual-port assembly
- o Display type: LED (single or full-color) or LCD with LED backlight
- o Connectivity: Serial, Ethernet, or GSM wireless
- o Power: 230V AC, optional backup from solar or public lighting
- o Compliance: EN50155, EN45545, ISO9001:2015 for quality and safety
- o Customization: Panels can be configured side by side or stacked for dual-port setups, with optional clocks, accessibility features, and passenger interaction ports. These specifications ensure that dual-port information panels are flexible, durable, and compliant with railway operational standards, suitable for both station platforms and onboard train installations.

Railway Passenger Information Systems increase the travelling comfort for passengers,

To avoid interferences between the future deployed radio systems (railway operator / public radio systems), the public radio operator

Search HSN and SAC codes, tax rates, descriptions, and related information for Goods and Services Tax (GST) on this official platform.

"This 12.1" EN50155 compliant panel PC is extremely reliable and suitable for railway

Railway Panel-PC 15" Black 15" LCD-TFT Panel-PC for Rail Vehicles, black version LED Backlight Intel® Atom E3826 Baytrail-I dual

SOURCE: Draft specification RDSO/ SPN/ TC/ 61/2015 Rev 4.0 has been prepared by RDSO, Lucknow based on feedback provided

DisplayPort Dual-Mode (DP++), also called Dual-Mode DisplayPort, is a standard which allows DisplayPort

The document provides a basic guide to the equipment that makes up a Solid State Interlocking (SSI) central interlocking system,

Products and services for panels and displays, including the latest information, news, videos, images,

Handbook on Indian Railway Standard Drawings & Specifications for Signalling - Free download as PDF File (.pdf), Text File (.txt) or

The DC15 panel PC is a rugged, fanless and maintenance- control wireless communication functions like 2G, 3G, 4G free human

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A modern railway signaling system called "Communications-based train control (CBTC)" was introduced in the mid-1980s with the

Figure 2 : Block Diagram of Distributed System Configuration of EI ngle mode optical communication is used to exchange information

6 6 6 Figure 3 - PanelView Plus 7 Standard Terminals with Dual Ethernet Ports, Bottom View d d 6

NorComp Dual-Port D-Sub Connectors are designed for applications requiring multiple connector ports with limited PCB space. This

Panels have a long service life, and can be custom designed to fit diferent types of rail and sleeper applications. Top and bottom

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