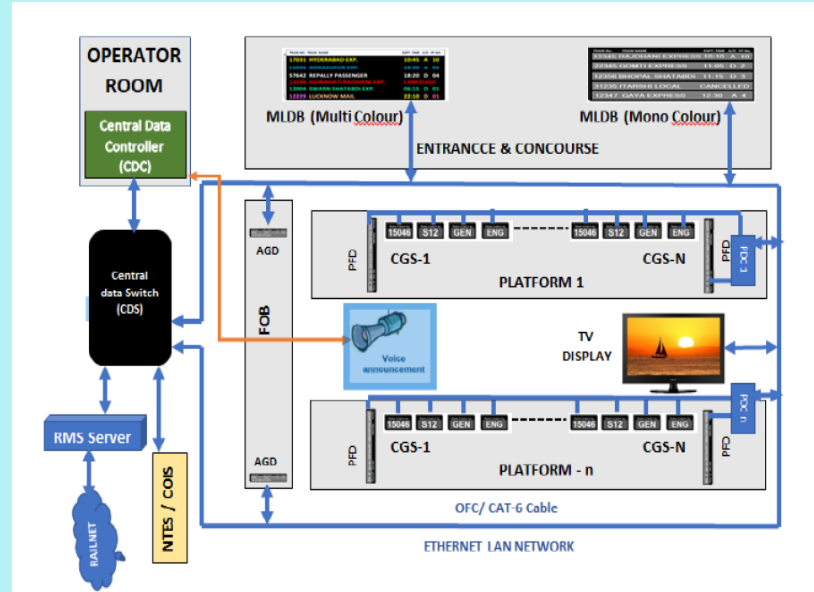


TECHNICAL SPECIFICATIONS OF IP BASED INTEGRATED PASSENGER INFORMATION SYSTEM (IPIS)

OVERVIEW

The **IP Based Integrated Passenger Information System (IPIS)** is a comprehensive digital communication solution designed to provide passengers at railway stations with real-time information on train arrivals, departures, coach guidance, emergency alerts, and advertisements. The system operates over a LAN-based IP network, allowing centralized or remote control and real-time data synchronization with national railway information systems like NTES and CAP.

Parameters	Specifications
System Type	IP Based Integrated Passenger Information System
Operating Voltage	160V to 270V AC with SMPS, surge protection, and UPS backup
Network Protocols	Ethernet using TCP/IP and UDP (Broadcast)
Data Interface	Copper RJ-45 / Optical SC/LC connectors
Communication	LAN-based centralized or distributed control
Display Types	Mono Colour LED, True Colour LED, Display Monitors
Display Format	Hindi, English, Regional languages - Configurable
Audio Interface	PC-based Announcement System integrated with PA amplifier
Environmental Compliance	IP65 (Outdoor Display - Front), IP54 (Back)
Operating Temperature	-10°C to +60°C
Software Interface	Windows-based CDC GUI, Web-based RMS; Supports NTES & CAP API
Video Support	.mpeg, .mp4, .avi, .mov, .jpg, .png, etc.
Display Module	Modular 16x48 matrix based (Mono), 432 x 128 (6 lines True Colour)
System Backup	Dual CPU configuration with real-time synchronization
Cooling	Natural air flow; Active fan & filters for video displays
Mechanical Housing	CRCA sheet (≥ 1.2 mm), Powder coated, rain hoods included
Emergency Alerts	CAP-based message auto-display & announcement



SALIENT FEATURES

- Modular, scalable & vendor-interoperable design.
- Real-time display of train data and coach guidance.
- Integration with NTES and Disaster Warning System (CAP).
- Multi-lingual display support.
- 24x7 operation support with industrial-grade hardware.
- Windows-based announcement system with professional voice studio-recorded clips.
- Conformal coated PCBs and surge-protected power modules.
- Remote Monitoring Software (RMS) via browser interface.
- Auto-dimming of LED brightness based on time or manually.