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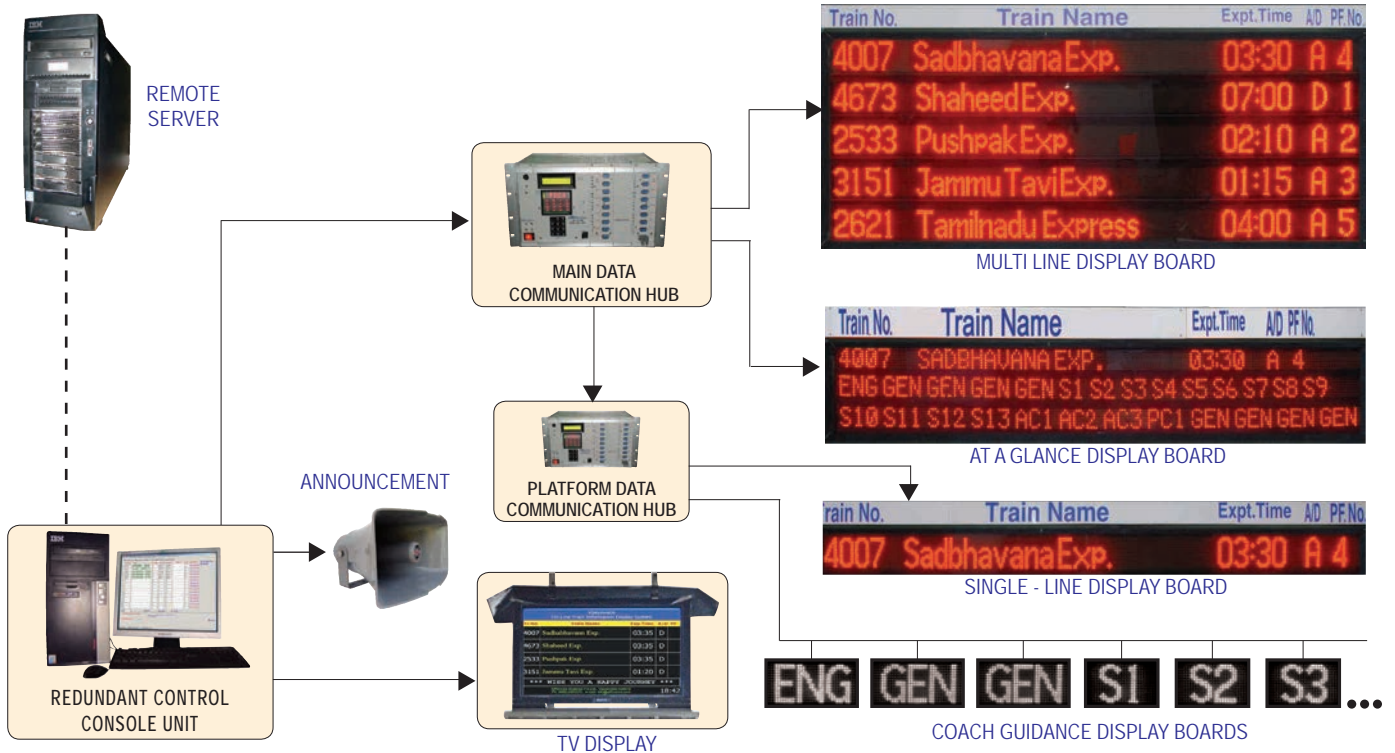
INTEGRATED PASSENGER INFORMATION SYSTEM (IPIS)

RDSO Specification: RDSO/SPN/TC/61/2012, Revision-3.0

Integrated Passenger Information System is a single system control providing audio and visual information to passengers, via multiple displays spanning over the entire station.

REMOTE SERVER

MAIN DATA COMMUNICATION HUB

ANNOUNCEMENT

PLATFORM DATA COMMUNICATION HUB

REDUNDANT CONTROL CONSOLE UNIT

TV DISPLAY

Train No.	Train Name	Expt.Time	A/D	PF.No
4007	Sadbhavana Exp.	03:30	A	4
4673	Shaheed Exp.	07:00	D	1
2533	Pushpak Exp.	02:10	A	2
3151	Jammu Tavi Exp.	01:15	A	3
2621	Tamilnadu Express	04:00	A	5

MULTI LINE DISPLAY BOARD

AT A GLANCE DISPLAY BOARD

SINGLE - LINE DISPLAY BOARD

ENG GEN GEN S1 S2 S3 ...

COACH GUIDANCE DISPLAY BOARDS

FEATURES OF CONTROL CONSOLE UNIT

- ❖ Dissemination of data with single button click.
- ❖ Provision to update data from remote server which maintains actual train arrival/departure timings and predictions.
- ❖ Reports for disseminated data for future analysis.
- ❖ Voice play back and voice recording facility.
- ❖ UNICODE standard for data entry of all the languages.
- ❖ Auto intensity control of display boards based on user defined time settings from application software.
- ❖ Overall system communication health status indication in application software.

COMMUNICATION HUBS

- ❖ Routing of data to respective display boards.
- ❖ Can be configurable to work either as main HUB or platform HUB.
- ❖ In-built self diagnostic routines for testing different peripheral and communication ports.
- ❖ Communication health indications of slave ports on front panel.

FEATURES OF DISPLAY BOARDS

- ❖ Multi Lingual Display.
- ❖ LEDs with more viewing angle and life time.
- ❖ Dust proof, weather proof, and water proof systems as per protection class IP54.

OTHER FEATURES

- ❖ Multilingual Train information on TV display.
- ❖ PC based Voice announcement system.

5 Line Display Installed at Vriddhachalam Jn. Railway Station (Chennai)

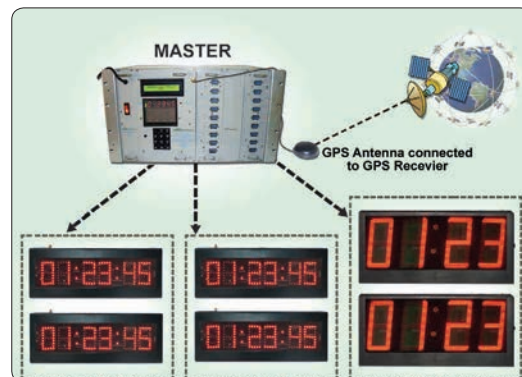Single Line Display Installed at Secunderabad Railway Station

Coach Guidance Installed at Secunderabad Railway Station

"A PRODUCT DEVELOPMENT COMPANY"

DIGITAL CLOCKS WITH GPS SYNCHRONIZATION

efftronics ®

To provide insight for enhancing wealth

RDSO Specification: RDSO/SPN/TC/62/2008 Revision 3.0

To display precise and accurate time on all digital clocks placed throughout any organization or commercial places and to eliminate the need for manual setting of time.

FEATURES

❖ Master clock with GPS time synchronization.

❖ Real Time Clock backup in Master Clock in case of GPS reception failure.

❖ Master clock can synchronize up to 64 slave clocks.

❖ Provision for setting 12 or 24 hour time format.

❖ Time display in Digital clocks with built-in RTC even when connection fails with Master.

❖ Isolated current loop communication between Master and Slave Clocks.

❖ Proven & Reliable communication protocols are used for communication.

❖ Class 'D' surge protection in data communication.

❖ Slave clocks communication health status is indicated in Master.

❖ In-built self diagnostic routines for testing different peripherals and communication ports.

❖ Password authentication provision is provided for time setting and port testing through user interface of master clock.

❖ Protection against transient and voltage fluctuations in power supplies is provided.

❖ IP54 Compliance.

❖ Available Display colors   : Red and Green.

❖ Display type   : Seven segment display.

❖ Display format   : 12 / 24 hr. with or without seconds field.

❖ Operating i/p voltage range   : 170V-264V AC

APPLICATIONS

❖ Railway stations

❖ Airports

❖ Bus Depots

❖ Process industries

❖ Sporting Arenas

❖ Customer Service Centers

❖ Emergency and Police Services

❖ Government and General Offices etc.

Digital clocks as per RDSO specification			
Clock Description	Size of 7segment LED matrix H(mm) X W(mm)	Maximum housing dimensions H(mm)XL(mm)XD(mm)	Time Format
Big digital clock with single side. (Out door)	320 X 150	510 X 1200 X 250	HH:MM
Big Digital clock with double side. (Out door)	320 X 150	510 X 1200 X 300	HH:MM
Small Digital clock with single side.(In door)	70 X 37	150 X 420 X 100	HH:MM:SS

❖ **Digital clocks can be customised for different sizes, colors, single / double side, with / without seconds field etc.**