



ENERGASIA®

**DHVANI** 

Public Address Systems

# High-Performance Audio *for* Demanding Environments

An Energasia Brand



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# Introduction

## **The Power of Voice in a Connected India**

Every day, millions of people in India rely on public address (PA) systems — often without even noticing them. From train stations and airports to schools, temples, and industrial plants, these systems help us hear, understand, and act.

In an era where cities are becoming smarter and more connected, PA systems have evolved far beyond loudspeakers. They are now intelligent, networked communication tools — improving safety, coordination, and experience across public spaces.

At **DhvaniX**, we believe that a well-designed PA system does more than just amplify sound — it connects communities. Whether it's alerting passengers, guiding crowds, or broadcasting emergency messages, our systems ensure that every message is heard clearly, every time.

## Certifications



ISO 9001:2015



ISO 27001:2022



ISO 20000



IEC 61000-4-3;  
2020 (Part 3)



EMC 61000-4-4-2012  
(Part 4)



EMC 61000-4-6-2023  
(Part 6)



IEC EN54



IP67



IMPACT PROTECTION  
**IK 10**



MAKE IN INDIA





# DHVANiX in Numbers



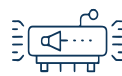
**10+**  
Industries



**70+**  
projects in Public sector



**30+**  
projects in  
Private sector



**1000+**  
1000+ PA Systems  
deployed



**10**  
years in service



**99.99%**  
of uptime



**100%**  
customer  
satisfaction



Low cost  
of operating



Made in India



Dhvanix is compatible  
with 3rd party switches  
& applications

**EPBAX + PA APPLICATION + ECB APPLICATION  
+ CALL CENTRES ALL INTEGRATED**



# Energasia: The Technology Behind DHVANI<sup>X</sup>

## **Global Engineering. Indian Innovation**

**DhvaniX** is a specialized brand from **Energasia Group**, a global engineering and technology company delivering advanced solutions across **energy, communication, and smart infrastructure**.

With a presence across **5+ countries**, Energasia partners with governments, city planners, and private enterprises to build resilient, future-ready systems that serve people and the planet.

Energasia's global expertise and deep local understanding come together in DhvaniX – combining reliability with innovation to create world-class communication solutions designed for India's scale and diversity.



## **Global Footprint:**

Headquarters  
**INDIA**

Regional Hubs  
**UAE, Singapore, Europe, and Africa**

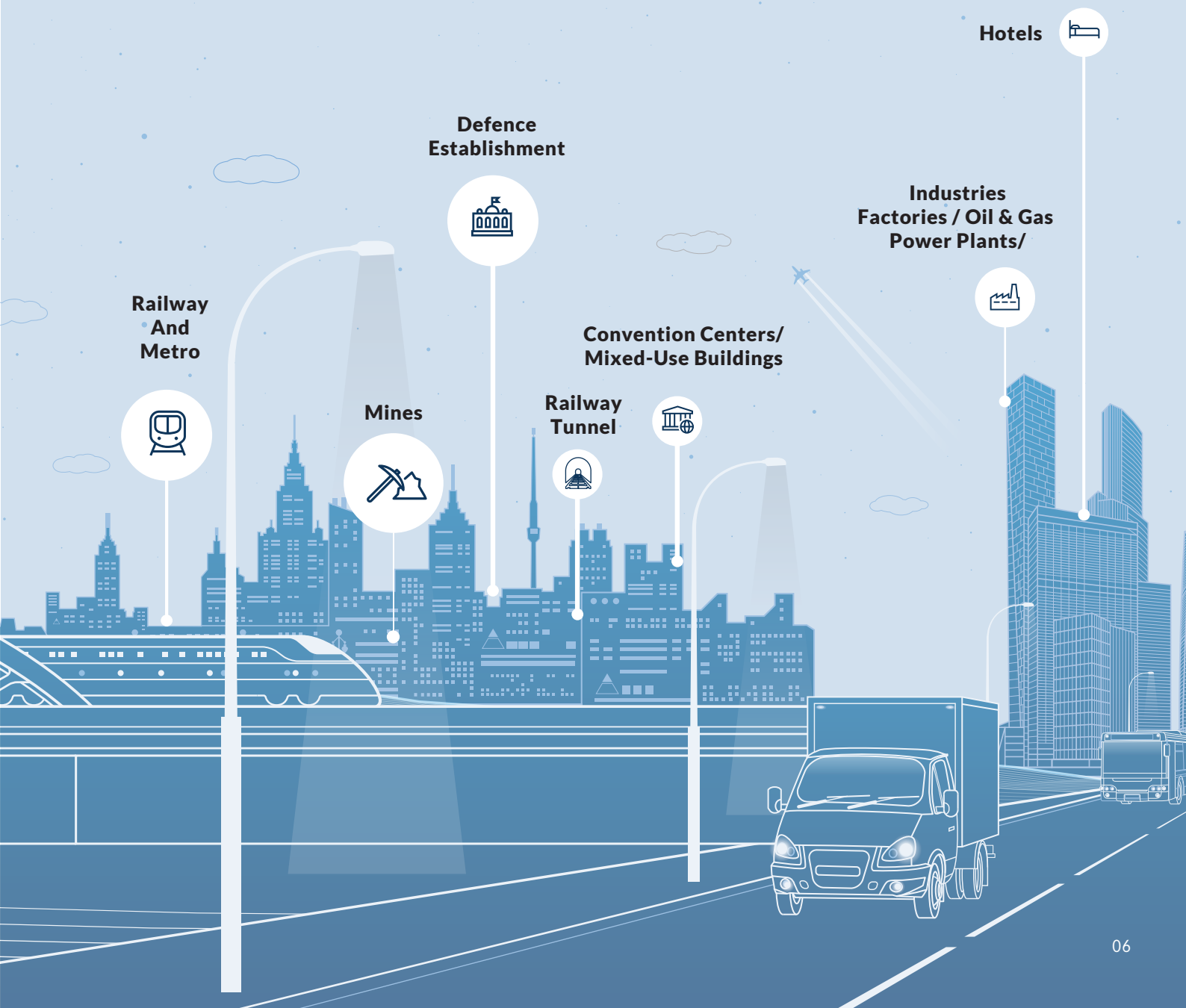
**Over 50+ major infrastructure and smart city projects executed**

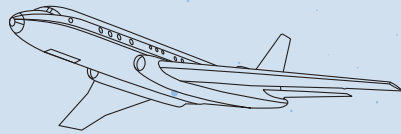


# Applications Across India

DhvaniX systems are engineered to serve the dynamic needs of Indian cities — from dense urban centers to expanding industrial zones.

Energasia has been an integral part of several **Smart City projects** across India, deploying integrated communication networks that keep citizens informed, connected, and safe.





**Houses of  
Worship**

**Entertainment  
Casinos / Stadia /  
Theaters / Sports and  
Leisure Facilities**

**Hospitals**

**Office  
Buildings**

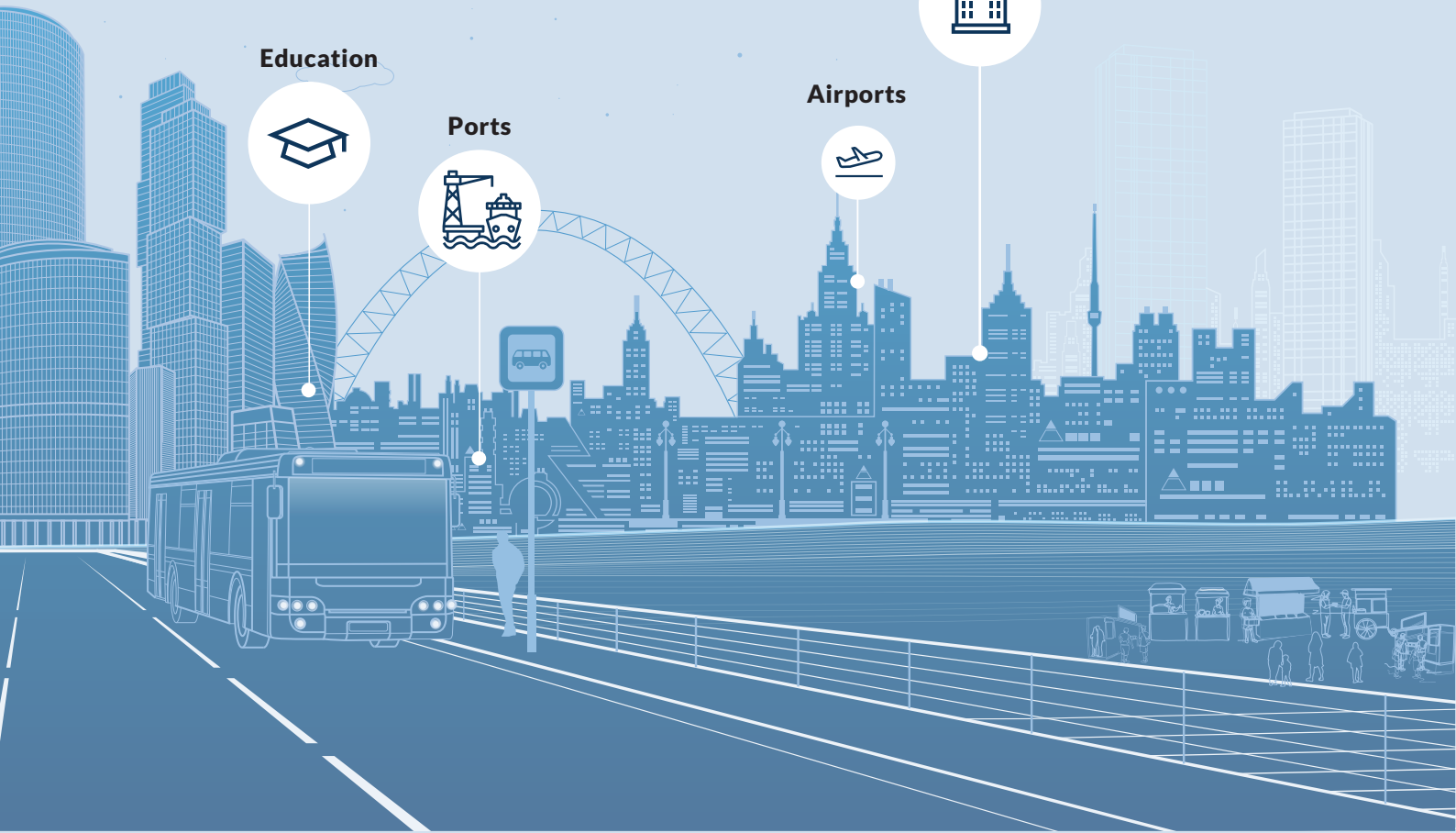
**Education**



**Ports**



**Airports**





# PA System Architecture

*Technology for Every Scale and Setting*

## ① Paging Console Phone

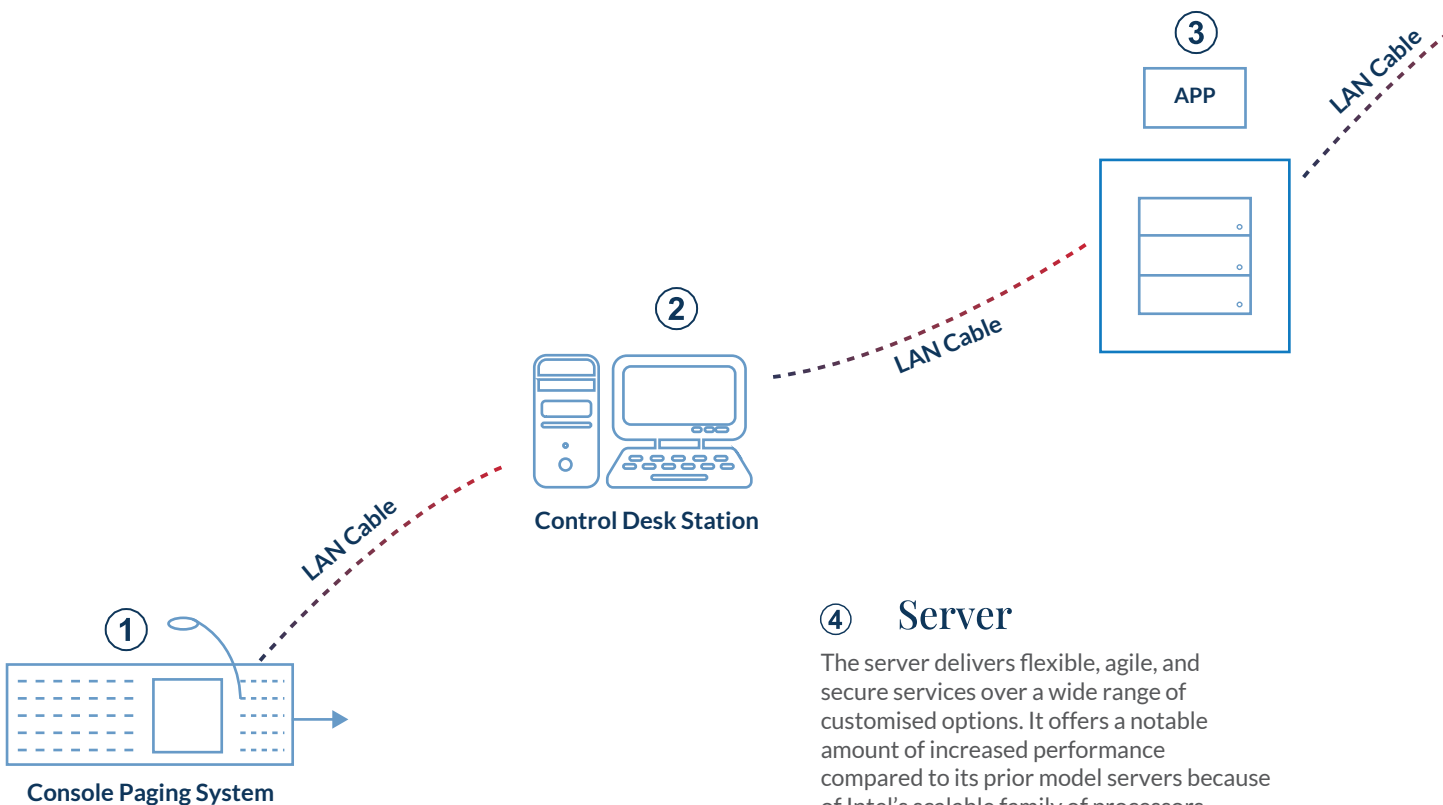
M-50 is a visualization paging console phone for industry customer. It is equipped with a gooseneck microphone and supports HD hands-free calling. With intelligent programmable DSS buttons, you can set up a one-click call function to improve communication efficiency.

## ② Control Desk Station

Once connected to Energasia's backend systems (via a line cable), this system can handle communication with peripheral devices and manages TCP/IP links by optimizing the flow of transmission to save bandwidth on WAN links.

## ③ Application

IAS-L100 is the hardware server installed the IP Audio Center, provides user the out-of-the box feature to ready to use. The IP Audio Center is a comprehensive public address system that provides centralized IP audio endpoints auto provisioning and management features.



## ④ Server

The server delivers flexible, agile, and secure services over a wide range of customised options. It offers a notable amount of increased performance compared to its prior model servers because of Intel's scalable family of processors.

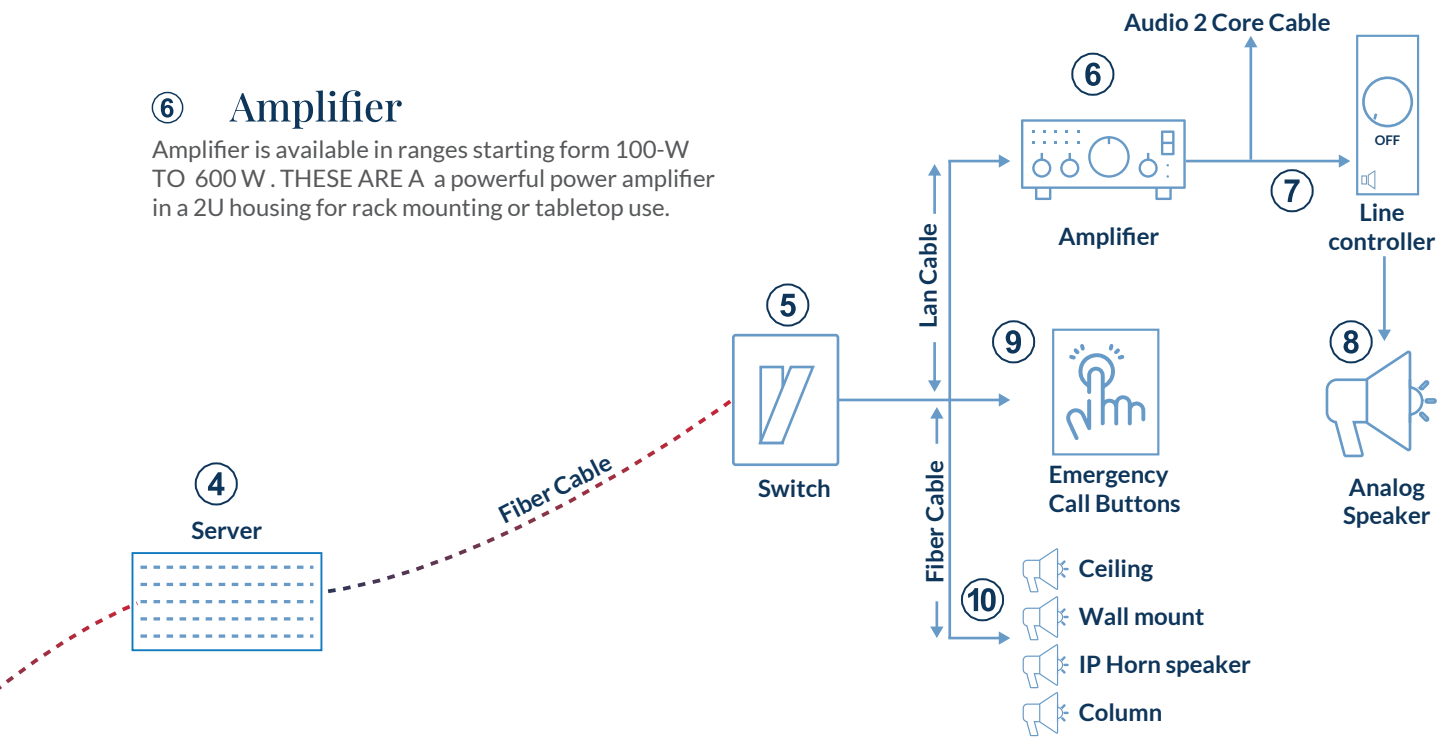


## ⑤ Switch description

A Managed PoE+ Switch is a smart networking device that delivers both data and electrical power over a single Ethernet cable, while offering advanced control, security, and monitoring features.

## ⑥ Amplifier

Amplifier is available in ranges starting from 100-W TO 600 W . THESE ARE A powerful power amplifier in a 2U housing for rack mounting or tabletop use.



## ⑦ Line Controller

Line controller is a compact 12W wall-mount volume controller designed for various wattages for line PA speakers.

## ⑧ Analog speaker

Analog horn speaker which provides exceptionally clear and intelligible voice for notification/tone broadcasting and streamed background music.

## ⑨ Emergency Call Box

This is an IP based Video enabled Emergency Call System that also serves as a high-definition IP surveillance camera and IP intercom to offer facility access control and security monitoring for buildings of all sizes.

## ⑩ IP horn speaker

IP horn speaker is a SIP enabled horn speaker which provides exceptionally clear and intelligible voice for SIP paging, notification/tone broadcasting and streamed background music.



### Console Paging



It is compatible with the standard SIP protocol and can be used as a monitoring center or host for office manager with functions such as make calls for external & internal phones, two-way intercom, monitoring, and broadcasting.

### Control Desk System



ISO/IEC 12207 ISO/IEC 5055

Smart EMS stores all device and management data locally in a scalable SQL database (up to 5 TB), enabling robust offline operation.

### Application



To achieve features like background music, group paging, audio conferencing, video linkage, IP phone call, etc. It is suitable for public safety, smart city, secure community, industry, healthcare, & much more application scenarios.

### Server



This server fulfills demanding requirements by performing complex operations without interruption, thanks to powerful processors with low power consumption and minimal latency.

### Switch



Designed for IT/telecom, it centrally manages IP cameras, Wi-Fi APs, VoIP phones, and IoT devices for reliable, scalable operations.

### Amplifier



The power amplifier series with its varied amplification range fulfills a wide variety of public address requirements at a surprisingly low cost.

### IP Speaker



Ideal for public notifications and safety in outdoor spaces, this system features a built-in amplifier, IP65 weatherproofing, and excellent thermal durability.

### Emergency Call Buttons



This powerful IP video system features a 180° viewing angle for full coverage and includes built-in intercom plus alarm I/O for security device integration.

### Analog Speaker



This line of products is suitable for public notifications and safety in outdoor spaces, available in multiple wattages (6W-40W) and mounting types (horn, wall, column, ceiling).

### IP Phone



This cost-effective office IP phone supports IPv6/IPv4, offers robust network/security features, and is ideal for enterprise and cloud unified communications.

### Line Controller



With a high-quality 10-step rotary switch and durable brown/ white housing, it provides smooth, reliable volume adjustment for audio systems.



# Projects Undertaken

## DEFENCE



BEL



DRDO



ISRO



IAF  
(Indian Airforce bases)

+ many more project

## RAILWAY TUNNEL



Sengal Naushera



Z morh Tunnel

+ many more project

## METRO



Nottingham's Tram system

## PORTS



JNPT



Khandala



Tuticorni

+ many more project

## AIRPORTS



NAVI Mumbai international airport



Noida International Airport

+ many more project

## SMART & SAFE CITIES



Karnal Smart City  
Himachal Pradesh



Bhopal Smart City  
Madhya Pradesh



Indore Smart City  
Madhya Pradesh



Smart City Mission  
NDMC Smart City  
New Delhi



Varanasi Smart City  
Uttar Pradesh

+ many more project

## Contact Us

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