



Transportation Sector Display Solutions



TRANSPORTATION SECTOR

ABOUT US



Your Reliable Partner for Professional Display Solutions

Since 1995, ERPA Teknoloji has been a **pioneer in industrial technology** through its domestic production capabilities and has established itself as a comprehensive solution center within the industry. Consistently ranked among **"Turkey's Top 500 IT Companies,"** ERPA Teknoloji has successfully delivered numerous projects domestically while also extending its services internationally through a well-established supply network across multiple regions.

As the company that established Turkey's first monitor and printer laboratory, ERPA Teknoloji has transformed its expertise in display technologies into innovative and locally developed products under the **TOCHI** brand. Today, TOCHI offers a comprehensive range of solutions, including videowalls, digital signage displays, kiosks, digital totems, **smart bus stop displays, in-vehicle displays, in-vehicle PCs,** defense industry displays, industrial monitors, panel PCs, mini PCs, and smart building systems. In addition to standard products ranging from 4.5 inches to 110 inches, ERPA Teknoloji has the capability to design and manufacture customized display solutions tailored to specific project requirements and dimensions.

Our products are engineered to withstand demanding outdoor conditions and fully comply with **IP protection standards** against dust and liquids. Our engineering expertise and commitment to quality are reinforced by nationally and internationally recognized certifications, including **CE, EMC, TSE, TSE-HYB, Industrial Registration Certificate, and Domestic Goods Certificate.**

Our in-vehicle, smart transportation, and railway system solutions fully comply with **ECE R10 standards** for electromagnetic compatibility, **EN 50155 standards** for resistance to harsh temperature and vibration conditions, and **UN/ECE R118 standards** for fire safety.

ERPA Teknoloji conducts all manufacturing operations in accordance with the **ISO 9001:2015 Quality Management System,** placing customer satisfaction and continuous improvement at the center of its processes. With its strong domestic manufacturing capabilities, engineering excellence, and innovative vision, ERPA Teknoloji continues to develop the technologies of the future.

Manufacturing operations are carried out at our facility located on Basın Ekspres Avenue, Halkalı, İstanbul, while our research and development activities are conducted within the AREL TEKMER and Dijitalpark Technopark innovation ecosystems.

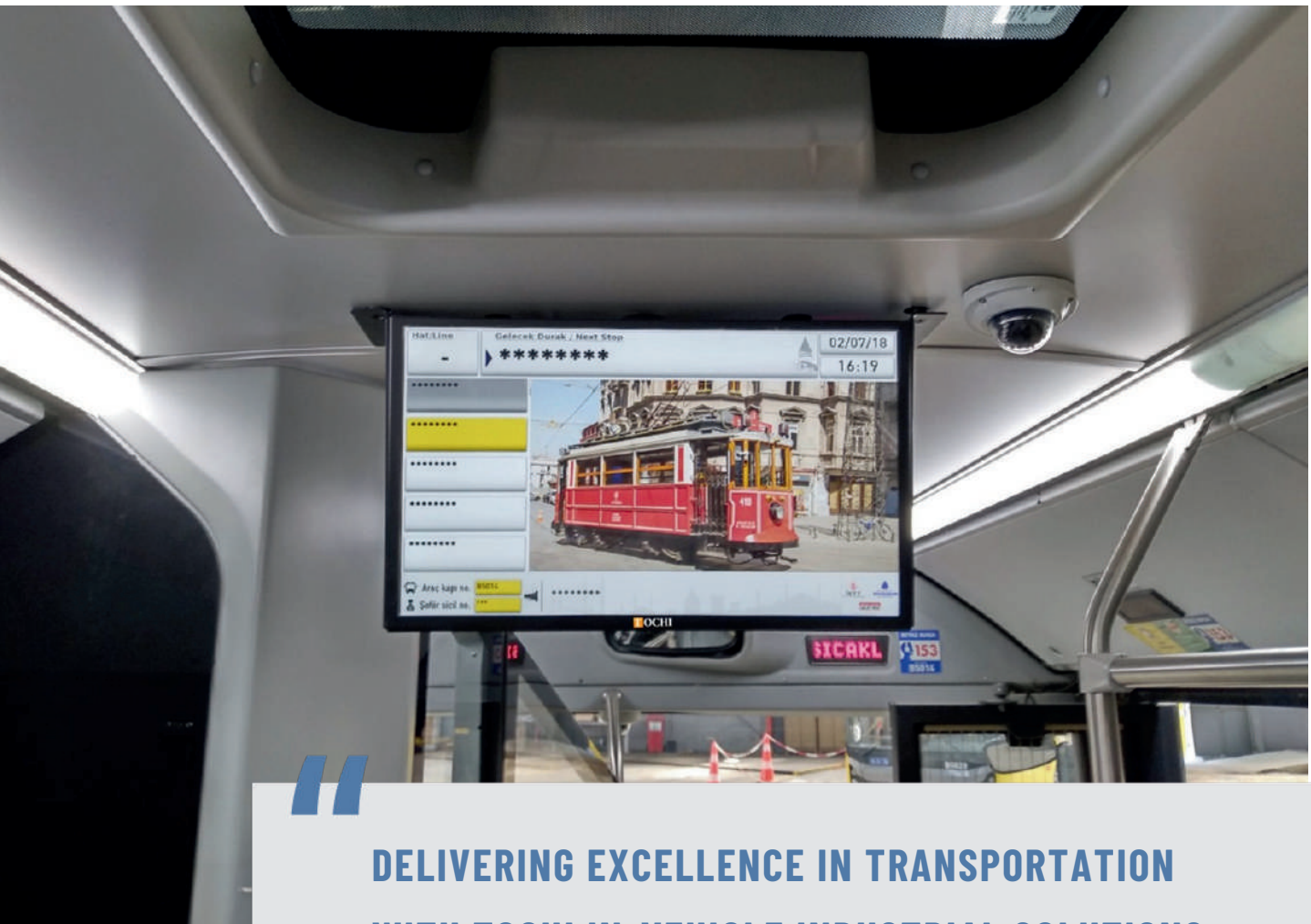


TOCHI In-Vehicle Industrial Display Solutions

TOCHI provides a high-performance and reliable digital communication infrastructure for passenger information, advertising management, vehicle control, and driver assistance applications through display solutions developed entirely with its own engineering resources for the public transportation and commercial vehicle segments.

Designed with high brightness, excellent daylight readability, automatic brightness control, and remote centralized management capabilities, TOCHI enhances the user experience while delivering reliable solutions for the digital transformation of the transportation industry through the strength of local manufacturing and end-to-end engineering support.

Our displays can be customized for project-specific requirements with various sizes, resolutions, and mounting options to meet the operational needs of buses, BRT systems, rail transportation, marine vessels, and special-purpose vehicles. Built to industrial standards, they provide uninterrupted 24/7 operation even under high vibration, extreme temperature fluctuations, and intensive usage conditions.

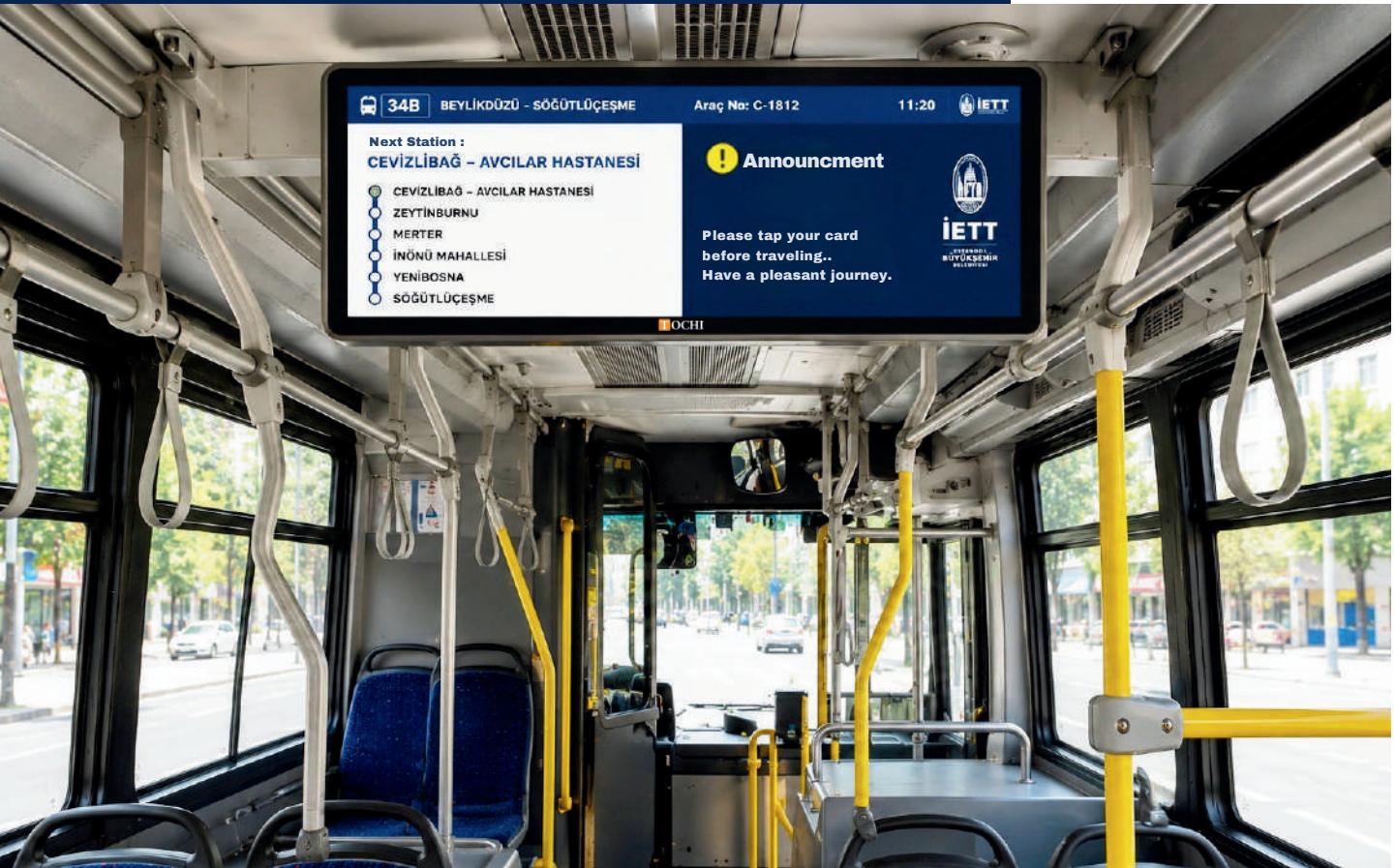


**DELIVERING EXCELLENCE IN TRANSPORTATION
WITH TOCHI IN-VEHICLE INDUSTRIAL SOLUTIONS.**

What Role Do In-Vehicle Displays Play in Transportation?

TOCHI In-Vehicle Display Systems ensure the seamless management of passenger information, dynamic guidance, and digital communication processes in modern transportation systems. Thanks to their next-generation technology, wide viewing angle, and excellent daylight readability, stop and route information, corporate announcements, advertising content, and critical operational data are delivered to passengers instantly with exceptional visual quality and clarity.

Designed to fully adapt to demanding field conditions and in-vehicle operating environments, these industrial-grade displays reduce operating costs through their robust construction and long-lasting performance, while maximizing passenger satisfaction.





Application Areas

Display solutions installed across all transportation systems—including urban public transportation, rail vehicles, marine and aviation transportation, as well as defense transportation platforms—can be designed and implemented not only as standard applications but also as fully customized project-based solutions.

The application areas of in-vehicle industrial display systems include:

Road Transportation Vehicles

- Metrobus
- Passenger Cars
- Buses
- Minibuses
- Taxis
- VIP / Private Vehicles
- Public Service Vehicles

Aviation Vehicles

- Airplanes
- Helicopters

Marine Vehicles

- Ferry Boat
- Passenger Ferry
- Ship
- Passenger Ship
- Sea Bus
- Cruise Ship

Defense Industry Vehicles

- Land Defense Vehicles
- Naval Defense Vehicles
- Air Defense Vehicles

Rail Systems

- Metro
- Tram
- Light & Heavy Rail Systems

Display Mounting Configurations



**Angled
Single-Sided**



**Flat
Single-Sided**



**Pole-Mounted
Single / Double-Sided**



**Ceiling-Mounted
Single / Double-Sided**



TOCHI In-Vehicle Information & Passenger Guidance Displays



TOCHI In-Vehicle Mirror Displays



TOCHI In-Vehicle Media Player



TOCHI Rear View Displays



TOCHI HDMI Splitter Display Distribution Port



TOCHI Touch Displays



TOCHI Vehicle Computer

Advantages of TOCHI In-Vehicle Industrial Display Systems

- Custom Size Options
- Easy and Fast Installation
- Perfect Adaptability to Any Environment
- Resistance to Vibration and Shock
- Automatic Brightness Adjustment (Optional)
- Real-Time Information Display
- High Resistance to Harsh Conditions
- Long Service Life



In-Vehicle Display Solutions and Product Range

TOCHI is shaping the digital communication and passenger information infrastructure of modern transportation networks with its in-vehicle display series designed through an innovative engineering approach. With a wide product portfolio, flexible integration capabilities, and customizable solutions tailored to specific requirements, our brand delivers high performance and operational reliability across a broad range of applications, from rail systems and public transportation to industrial and specialty vehicles.

In-Vehicle Information and Passenger Guidance

Displays



TOCHI In-Vehicle Information and Passenger Guidance Displays are advanced technology solutions designed to enhance passenger experience and strengthen operational communication across transportation networks, particularly in public transit and rail systems. Delivering real-time route information, stop announcements, and emergency notifications without interruption, these systems offer seamless integration into specialized projects through their modular architecture and customizable design.

- **Flexible Configuration**
- **High Visibility**
- **Real-Time Information Delivery**
- **Easy Integration**
- **Industrial Durability**
- **Remote Management**
- **24/7 Uninterrupted Performance**

Display Sizes: 10.1" - 15.6" - 19" - 19.5" - 21.5" - 23.8"- 27" - 29" - 32"



Compact Folding Passenger Information and Guidance Display

Display Sizes: 15.6" - 19"

Distinguished by its ergonomic retractable display mechanism, this specialized series maximizes the efficient use of in-vehicle space. Combining a compact design, refined aesthetics, and a robust mechanical structure, it delivers outstanding usability for passenger information systems. Engineered for seamless integration with vehicle ecosystems, it offers a practical, reliable, and technologically advanced solution.

Slim In-Vehicle Display Solutions

TOCHI Slim In-Vehicle Displays are purpose-built, industrial-grade display solutions designed for passenger information and digital communication applications. Their compact form factor and ergonomic design enable seamless integration into limited vehicle spaces, providing an elegant appearance while ensuring reliable performance, easy installation, and optimal space efficiency.



- Fast & Efficient Installation
- Enhanced Visibility Performance
- Rugged Industrial Design
- Seamless System Integration
- Centralized Remote Monitoring & Management
- Reliable 24/7 Operation



Display Sizes: 10.1" - 15.6" - 18.5" - 21.5" - 23.8" - 27"



In-Vehicle Mirror Displays

TOCHI In-Vehicle Mirror Displays deliver superior visibility and driving safety through high-resolution, real-time video transmission, significantly reducing blind-spot risks and enhancing driver awareness.

Manufactured to industrial-grade standards, these displays deliver stable and reliable performance even under high vibration, harsh environmental conditions, and continuous 24/7 operation. Equipped with integrated night vision support, anti-glare technology, and an ergonomic design, they enhance both driving comfort and operational safety to the highest level.

- **Full Adaptation to Harsh Environments:** Equipped with an integrated heating system, the display delivers reliable 24/7 operation without freezing or fogging, even under extreme cold, heavy rainfall, and demanding environmental conditions.
- **Advanced Imaging Technology:** Featuring an anti-glare design and high-sensitivity night vision support, the system provides lossless, high-definition (HD) image quality in both direct sunlight and near-zero-light environments.



Display Sizes: 12.3"

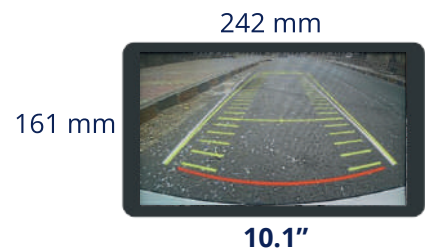


Rear View Displays

TOCHI Rear View Displays are engineered to enhance driver awareness by delivering real-time, uninterrupted visibility of critical areas around the vehicle. Advanced imaging technology ensures sharp, high-resolution viewing performance in all lighting conditions, supporting safer maneuvering and improved operational control.

Designed for demanding transportation environments, the rugged, vibration-resistant construction meets industrial-grade standards and provides reliable 24/7 operation, even under extreme weather and operating conditions.

- **HD Image Quality:** High-resolution display technology delivers exceptional clarity and sharpness in every detail.
- **Real-Time Data Transmission:** Ultra-low latency imaging technology enables seamless, millisecond-level monitoring without interruption.
- **Day & Night Performance:** Advanced display architecture minimizes glare and maintains outstanding visibility under changing lighting conditions.
- **Easy and Flexible Integration:** Fully compatible with various camera systems and vehicle electronics, ensuring fast and seamless installation.
- **Rugged Design for Harsh Environments:** Built to withstand vibration, sudden temperature fluctuations, and intensive 24/7 operation for long-term reliability.
- **Maximum Driving Safety:** Wide-angle viewing capability helps eliminate blind spots and enhances accident prevention.



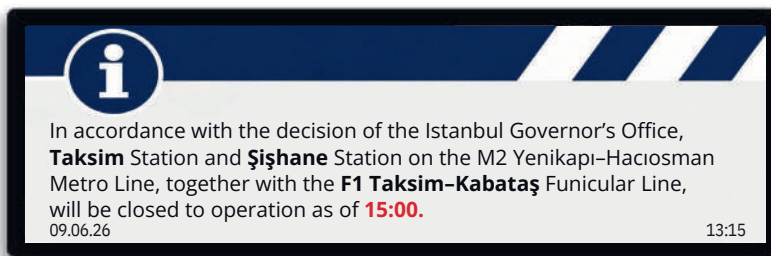
Stretched (Ultra-Wide) Bar Display Solutions

TOCHI Ultra-Wide Displays are designed to deliver passenger information, navigation guidance, and digital advertising content in the most effective way for public transportation vehicles. With their ultra-wide (stretched) form factor, they maximize the use of narrow in-vehicle spaces, while their high visibility performance ensures that critical information is communicated to passengers clearly and efficiently. Built on an industrial-grade hardware architecture, they provide uninterrupted and reliable operation even under 7/24 intensive usage conditions.

- **Flexible Design:** Available in various screen sizes and ultra-wide display formats
- **High Visibility:** Wide viewing angles combined with high-brightness technology
- **Multi-Purpose Use:** Display of stop and route information, advertisements, and real-time announcements on a single screen
- **Easy Connectivity:** Support for HDMI, VGA, USB, and Ethernet interfaces
- **24/7 Continuous Operation:** Reliable and uninterrupted performance designed for demanding public transportation environments



Announcements / Advertisements / Weather / Date / Time



Sizes	Measurements
27.7"	100 x 730 mm
29.6"	310 x 730 mm
37"	310 x 950 mm
42.5"	180 x 960 mm
56.4"	100 x 1460 mm



Display Sizes: 27.7" - 29.6" - 37" - 42.5" - 56.4"

In-Vehicle PC and Hardware Support Solutions

TOCHI In-Vehicle PCs and Support Solutions are engineered to provide the robust foundation required for modern passenger information and digital display systems. Acting as the central hub for control, data communication, and content distribution, these industrial solutions offer seamless integration across a wide range of vehicle platforms. Built to perform in demanding environments, they ensure reliable, continuous, and high-performance operation throughout fleet deployments.

In-Vehicle PC Solutions

TOCHI In-Vehicle PC Solutions serve as the core control center for passenger information, digital display, and fleet management systems. Powered by high-performance computing capabilities, they integrate effortlessly into diverse vehicle platforms while ensuring uninterrupted operation in the most demanding field conditions. Their robust architecture enhances operational efficiency, reliability, and overall system performance.



In-Vehicle Hardware Support Solutions

In-Vehicle Equipment Support Solutions enable high-speed, lossless, and reliable data and video transmission between in-vehicle displays and central computer systems. With HDMI/VGA extenders, HDMI/VGA splitters, and industrial cable solutions, they ensure uninterrupted and interference-free system performance even under the most demanding operating conditions.



Smart Bus Stop Displays

TOCHI Smart Bus Stop Displays are developed to enhance the passenger waiting experience by providing real-time transportation data and to improve the efficiency of urban transit networks.

With next-generation high-visibility screens, route information, arrival times, corporate announcements, and advertising content are delivered most effectively to audiences under outdoor environmental conditions.

- **Real-Time Passenger Information:** Continuous and uninterrupted broadcasting of route data, estimated arrival times, and corporate announcements.
- **High Brightness and Wide Viewing Angle:** Maximum clarity and lossless readability from all viewing angles under all environmental conditions, including direct sunlight.
- **Indoor/Outdoor Compatibility:** Fully adapted to extreme environmental conditions with a specially insulated and protected enclosure architecture.
- **Industrial Durability:** Long-life hardware structure resistant to harsh weather conditions, dust, humidity, and intensive public use, compliant with IP standards.
- **24/7 Continuous Operation:** High-reliability, uninterrupted performance designed for continuous operation in urban transportation networks.



Display Sizes: 32" - 43" - 49" - 55" - 65"



E-INK (E-Paper) Digital Displays

E-Ink Digital Displays, featuring a backlight-free design, provide a true paper-like reading experience. With blue-light-free and flicker-free technology, they ensure maximum visual comfort without eye strain. Since power is consumed only when the image changes, static content can be displayed with zero energy usage, enabling operation for months on a single charge.

This cable-free, eco-friendly system offers an ideal and effortless solution for locations without a constant power supply. The elegant and artistic texture of e-ink technology also adds a decorative and prestigious visual appeal to corporate environments.

- **Ultra Low Power Consumption:** Efficient display structure that consumes energy only during content changes.
- **Eye-Friendly Viewing:** Flicker-free, blue-light-free display technology for comfortable viewing.
- **Long Battery Life:** Up to 30,000 mAh built-in battery for uninterrupted operation.
- **Wireless & Flexible Use:** Wi-Fi, Bluetooth, and Ethernet connectivity options.
- **Elegant & Aesthetic Design:** Modern and premium appearance powered by E-Paper technology.



Display Sizes: 31.5"

Parking, Queue Management and Ticketing Systems



TOCHI Parking Meter, Queue Management and Ticketing Kiosks are advanced self-service solutions that optimize payment, ticketing, and queue management processes in transportation, parking, and corporate service operations. They make transactions fast, secure, and user-friendly in high passenger and visitor traffic environments. With their industrial durability and flexible hardware structure, they seamlessly adapt to all operational scenarios and deliver uninterrupted efficiency.

- **Multi-Payment:** Fully compatible with card, QR code, and digital payment systems.
- **Remote Management:** Ability to securely control all devices from a single center.
- **24/7 Continuous Operation:** High reliability and uninterrupted performance in high-traffic environments.
- **Flexible Structure:** Customizable hardware options according to project requirements.
- **User-Friendly:** Intuitive interface design enabling fast and practical transactions.
- **Industrial Durability:** Robust body design suitable for harsh conditions in crowded areas.



Display Sizes:
21.5" - 23.8" - 27" - 32"

Ultra Slim Digital Signage Displays

Ultra-Slim design and superior image quality, TOCHI Slim Digital Signage Displays present your advertising, promotional, and informational content in the most effective way. Operating 24/7 without interruption in the busiest transportation hubs such as stations, airports, and transfer centers, these next-generation screens seamlessly adapt to prestigious environments with their modern design. They bring a corporate vision to your passenger information and digital broadcasting processes.



- **Ultra-Slim Design:** An aesthetic slim cabinet that adds a stylish and modern look to any space.
- **High Image Quality:** Eye-catching display performance with vivid colors and high resolution.
- **Centralized Management:** Remote and instant content updates through a single system.
- **Flexible Use:** Suitable structure for both horizontal and vertical installation according to needs.
- **24/7 Continuous Broadcast:** High reliability for environments requiring uninterrupted information flow.
- **Easy Integration:** Fully compatible with various media players and software systems.

Display Sizes: 32" - 43" - 49" - 55"

Curved Display Solutions

TOCHI Curved Displays developed for public transportation systems deliver high performance in in-vehicle information panels, ticketing terminals, and passenger interaction points. With their compact architecture, easy integration capability, and durable structure, they provide excellent solutions to the demanding needs of the transportation sector. The multi-touch supported, high-precision capacitive screen technology ensures a fast and uninterrupted user experience without being affected by external signal interference.

- **10-point touch:** High-sensitivity, fast and smooth screen experience.
- **Sharp and vivid visuals:** Bright colors and high resolution under all lighting conditions.
- **Wide compatibility:** Easy integration with different systems.
- **Durable metal housing:** Protection against external signal interference and harsh conditions.
- **Slim and aesthetic design:** Stylish, modern, and curved body architecture.
- **Fast installation:** Practical and easy setup thanks to its compact structure.
- **Wide voltage support:** Seamless operation across different power infrastructures.
- **Energy efficiency:** Long-lasting use with low power consumption and minimal heat generation.



Featured Project References



Derince Municipality – Smart Bus Stop Display



Istanbulkart – Ticketing Kiosks



İBB 'İBAK' - In-Vehicle Information Display



İBB 'İBAK' - Rear-View Display System

References



Otokar



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2026/1

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