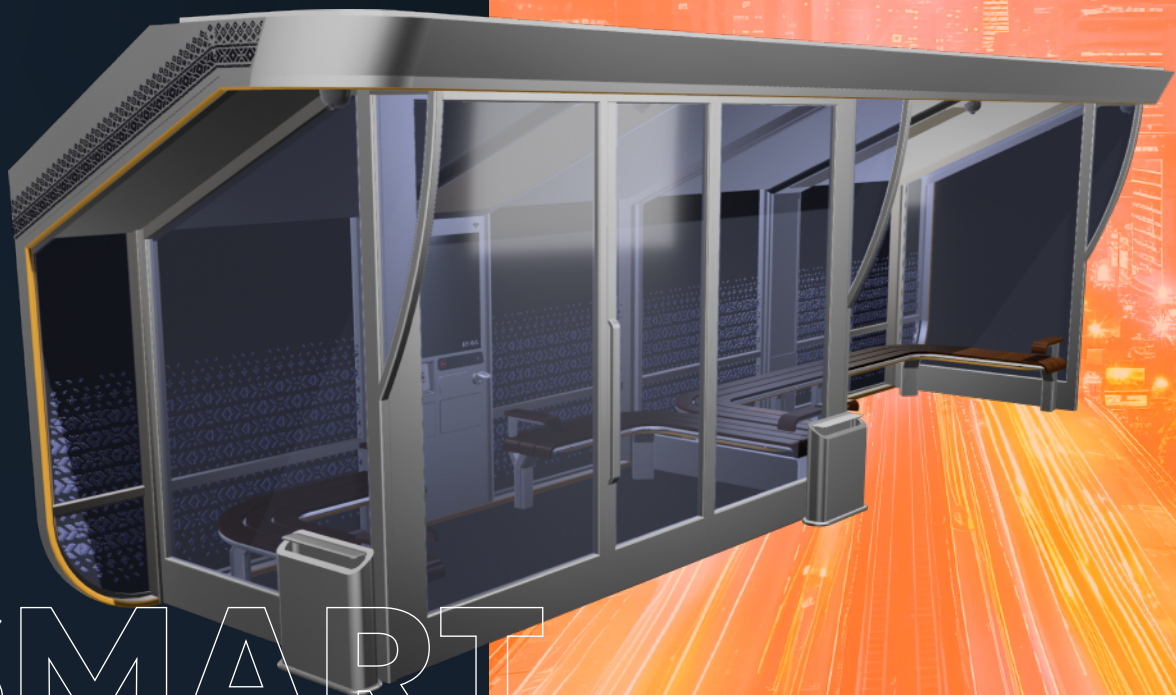




SMART BUS STATION

PRODUCT BROCHURE



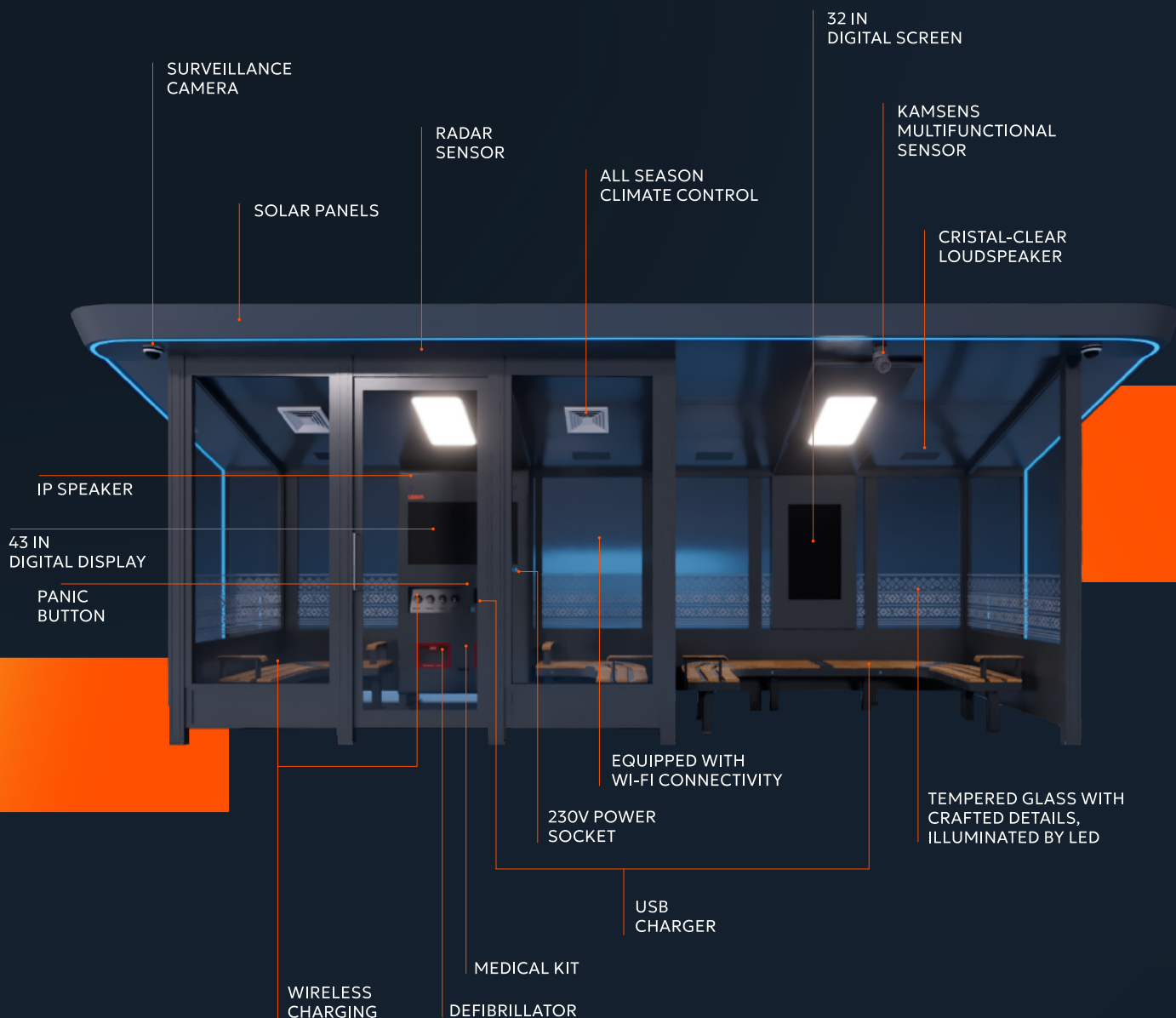
ABOUT BUS STATION



The Smart Bus Station is a next-generation public transport infrastructure solution designed to significantly enhance passenger comfort, safety, and connectivity. Built with a robust IP65-rated structure using galvanized steel, stainless steel, tempered glass, and durable composite materials, it integrates seamlessly into smart city ecosystems. The station is equipped with a high-resolution 32-inch LCD display, integrated audio system, high-brightness LED lighting, USB and wireless charging, 230V power sockets, and Wi-Fi connectivity, ensuring a modern and convenient user experience. Advanced safety and monitoring features include a high-performance PTZ camera with 360° coverage and IR night vision, integrated microphone and speaker, and an integrated KAMSENS multisensor and a radar sensor. Available with an optional all-season climate control system and efficient energy management, the Smart Bus Station encourages daily use of public transportation while serving as a connected, intelligent urban mobility hub.



GENERAL SPECIFICATIONS



APPLICATIONS

- Public transportation stations
- Urban mobility hubs
- Smart City infrastructure
- High-traffic public waiting areas

KEY FEATURES

PASSENGER SERVICES	SAFETY & MONITORING	SMART CITY INTEGRATION
• 32-inch LCD display • Wi-Fi connectivity • USB-A, USB-C and wireless charging • 230 V power socket • Integrated audio system for announcements	• 360° surveillance camera coverage • Integrated microphone and speaker • Panic button / emergency alert support • IP65-rated structure	• Compatible with smart city platforms • Sensor-ready architecture • Modular and scalable configuration

SAFETY & SECURITY



- Cristal Clear Speakers for Emergency announcement
- PTZ surveillance camera with 360° coverage
- Medical Kit
- Defibrillator
- Panic Button



Safe



Secure

COMPLIANCE & STANDARDS

- RoHS compliant (display system)
- Designed for public urban infrastructure
- Suitable for smart city deployments
- IP65-rated structure



Seamless Wireless Charging

Charge effortlessly.

Simply place your smartphone on the wireless charging surface and enjoy **cable-free convenience**. Designed for modern lifestyles, the Smart Bus eliminates clutter and **enhances user comfort**.



Power Anytime, Anywhere

Stay connected wherever you are. Equipped with USB & USB-C **fast-charging** ports, the **Smart Bus** keeps your devices powered throughout the day, whether you're commuting, relaxing, or waiting.



TECHNICAL SPECIFICATION

GENERAL INFORMATION

Application	Public transportation infrastructure
Purpose	Enhancing passenger comfort, safety, and connectivity
Integration	Compatible with smart city devices and platforms
Operation	Automatic, 24/7
Ingress Protection (structure)	IP65

STRUCTURE & MATERIALS

Structure	Modular galvanized-steel structure with electrostatic powder coating
Side panels	Approximately 10 mm tempered glass
Additional materials	Stainless steel, iron plates, acrylic board and plastic wood
Dimensions	Enclosed module: 4175 × 2080 mm; semi-open module: 3537 × 2080 mm; tolerance: 2%

VIDEO SURVEILLANCE SYSTEM – IP CAMERA

Camera	High-performance PTZ, 360° coverage
Image	Up to 4 MP (2560 × 1440), 5 MP CMOS, 30 FPS
Zoom	4× optical
Functions	Recording, motion detection, IR night vision
IR range	Up to 20 m
Connectivity	Remote access, central platform
Storage	Local NVR
Housing	Aluminum alloy, polycarbonate, hard-coated dome
Mounting	Polycarbonate, stainless steel
Protection	IP66 / IPX4 / IK08
Operating conditions	Max. 8.64 W; -20°C to +40°C
Software	UniFi Protect, iOS and Android
Audio	Integrated microphone and speaker

AUDIO AND COMMUNICATION SYSTEM – IP SPEAKER

System type	Integrated IP speaker
Functions	Announcements and automated messages
Integration	Central dispatch centre
Operation	Automatic or operator-controlled
Power	15 W PoE / up to 60 W DC
Supply voltage	24 VDC
Frequency response	45 Hz–18 kHz
Signal-to-noise ratio	≥83 dB
Connectivity	Bluetooth
Volume control	Remote
Standby consumption	Max. 2 W

EMERGENCY CALL SYSTEM – INTERCOM	
Equipment	Intercom terminal
Activation	Physical metal panic button
Communication	Two-way audio
Response	Real-time, through the dispatch centre

SENSOR SYSTEM – KAMSENS MULTISENSOR	
Use	Operational optimization and monitoring
Detection	Presence, light, noise and impact
Integration	Central system
Detection range	1–100 m
Detection angle	180°
Light detection	20–500 lux
Impact detection	1–10 G
Noise detection	60–120 dB
Protection	IP66 / IK10
Power consumption	Approx. 1.5 W

RADAR SENSOR	
Sensor type	5.8 GHz microwave radar
Frequency band	C-band
Protocol	DALI-2 (Part 351, Type B) / D4i
Detection diameter	Max. 16–18 m
Supply voltage	12–24 VDC
Maximum current	30 mA
Operating temperature	–20°C to +70°C
Protection rating	IP65
Light sensitivity	1–1,000 lux

ELECTRICAL CHARACTERISTICS	
Power supply	High-efficiency
Power options	75 W / 350 W
Input voltage	230 VAC
Output	VDC
Protections	Short circuit, overload
Additional protections	Overvoltage, overtemperature
Cooling	Built-in fan
No-load consumption	0.3 W / 0.75 W

ENERGY SYSTEM (PHOTOVOLTAIC PANELS + BATTERIES)	
Main power supply	230 VAC
Solar panels	4 × 410–650 W
Installed power	Min. 0.82 kW
Battery type	LiFePO ₄
Battery capacity	5.12 kWh
Inverter	Single-phase hybrid
Inverter power	Approx. 3 kW
Operating mode	On-grid / off-grid
Energy management	Automatic
Operation	Optimized for energy consumption and autonomy

COMMUNICATION SYSTEM – ROUTER	
Primary connectivity	Fibre optic
Alternative connectivity	4G / 5G
Wi-Fi frequency	2.4 GHz
Frequency range	2400–2483.5 MHz
Maximum speed	300 Mbps

CHARGING FACILITIES	
USB charging	USB: 3 W / USB-A: 18 W / USB-C: 30 W
Wireless charging	5 W / 7.5 W / 10 W / 15 W
Power socket	230 VAC; rated current: 16 A

LIGHTING SYSTEM	
Light	Pure white, high-brightness LED
Emission	Uniform
Resistance	Water, corrosion, high temperatures
Power	17 W
Supply voltage	12 VDC
Protection rating	IP33

EQUIPMENT AND FACILITIES	
Waste bin	Included
Bicycle rack	Optional
Medical kit	Included
Defibrillator	Included
Air conditioning	Optional, depending on configuration
LED information display	Optional, depending on configuration

LED INFORMATION DISPLAY SYSTEM	
Equipment type	LED information display
Number of displays	2
Dimensions	2240 × 160 mm
Pixel pitch	P4 (4 mm)
Resolution	560 × 40 pixels
Total pixels	22,400
Aspect ratio	14:1
Purpose	Real-time passenger information

LCD DISPLAY SYSTEM	
Screen size	32 inches
Resolution	1920 × 1080
Response	High-speed
Image quality	High luminance and contrast
Reflection	Low
Viewing angle	Wide

COMPLIANCE	
Display system	RoHS compliant

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