



10.4-Inch Fanless Railway Touch Panel PC

Key Highlight

- Built for reliable railway operation with reduced maintenance requirements.
- 10.4-inch 1000-nit multi-touch display with 1024 × 768 XGA resolution.
- UIC 612-01 compliant 32-key keypad with versatile I/O connectivity.
- -25°C to +70°C operation, IP65 front panel, and resistance to shock and vibration.

Product Information

The Keetronics 10.4-Inch Fanless Railway Touch Panel PC is a compact and rugged railway computing solution designed for driver cabins and other demanding railway applications. It combines an Intel Atom® x5-E3940 processor, 10.4-inch XGA PCAP multi-touch display, and an illuminated 32-key UIC 612-01 compliant keypad in a space-efficient fanless enclosure.

Designed for reliable operation in harsh environments, the panel PC supports a wide operating temperature range of -25°C to +70°C, storage temperatures from -40°C to +85°C, and an input voltage range of 24 V DC to 110 V DC. Its fanless architecture helps reduce maintenance requirements, while the rugged enclosure is designed to withstand shock and vibration.

The system features an IP65-rated front panel, high-brightness 1000-nit display, multiple USB and serial interfaces, dual Gigabit Ethernet, and flexible storage and expansion options. With support for Windows 10 and Linux, the KIPL 26-6539 can be configured for different railway systems, train models, and application requirements.

Technical Specifications

Product Code	KIPL 26-6539
Product Type	Fanless Railway Touch Panel PC
Application	Railway Driver Cabins & Railway Control Systems
Processor	Intel Atom® x5-E3940
Processor Speed	Up to 1.8 GHz
Memory	2 × DDR3L SO-DIMM, Max. 8 GB, Non-ECC
Display Size	10.4 inches
Display Type	TFT LCD
Resolution	1024 × 768 pixels (XGA)
Brightness	1000 nits
Contrast Ratio	1000:1 (Typical)
Touch Technology	Projected Capacitive (PCAP) Multi-Touch
Touch Surface Hardness	≥ 6H
Keypad	Illuminated 32-key keypad
Keypad Layout	UIC 612-01 compliant
Keypad Interface	USB / UART / IIC
Brightness Adjustment	Automatic via built-in light sensor
Storage / Expansion	1 × Full-size Mini PCIe; 1 × M.2 B-Key, Type 3042
Ethernet	2 × Intel® I210IT Gigabit LAN
USB	2 × USB 2.0 via pin-header; 4 × USB 3.0 on board
Serial Interfaces	1 × RS232/422/485, jumperless selection; 3 × RS232
Audio	Intel® Atom® SoC HD Audio + Realtek ALC888SHD Codec with Class-D Speaker Amplifier
Operating System	Windows 10 / Linux
Power Connector	M12 A-coded 4-pin Male
Input Voltage	24 V DC to 110 V DC
Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	90% RH at <40°C, non-condensing

Shock & Vibration	Designed to meet MIL-STD-810F
Ingress Protection	IP65-rated front panel
Enclosure Material	Aluminum / Iron
Dimensions (W × H × D)	310 × 214 × 50.74 mm
EMI / EMC	Designed to meet MIL-STD-461E/F
Safety	UL 62368
Optional Touch	Resistive touchscreen / Tempered glass
Optional Expansion	Additional COM / CAN / DIO connections
Optional Cable Kit	HDMI Cable / Ethernet Cable / USB Cable