



HMI panel with a display diagonal of 10.4 inches, intended for use in traction vehicles as an operator panel. Equipped with function buttons, light sensor, RFID reader and USB connectors as well as a touch overlay depending on the device variant.

Technical specifications

Manufacturer	ELLT
Core	Intel Apollo Lake Atom (Atom E3950 in standard, other optional)
RAM Storage	DDR3 4GB
Supply voltage range	16÷140 V DC
Rated voltage	24÷110 V DC
Energy consumption	max. 15 W
Screen diagonal	10,4"
Maximum resolution	1024x768
Luminance (cd / m2)	470 (max)
Contrast	3000:1 (max), 2500:1 (min)
Angles of view	178° vertical, 178° horizontal
mSata	1 x mSata SSD 128GB
Identification	Mifare reader RFID (optional)
Connectors	The mounted connectors depend on the version
Power	M12 A-code male 4-pin
USB	1x USB 2.0 (front) 1x USB M12 A-code female 8-pin (back)
LAN	2x 10/100 LAN with connector M12 D-code female 4-pin
Audio	1x M12 A-code female 5-pin
Video	1x HDMI
Antenna	2x SMA (modem antenna)
Communication	1x CAN M12 A-code male 5-pin
Memory slot	1x reader C-fast

Physical specifications

Dimensions	314 mm ± 2 mm x 214 mm ± 2 mm x 78 mm ± 2 mm
Mounting opening dimensions	Min. 290 mm x 205 mm



Physical specifications

Mounting hole spacing	300 mm ± 2 mm x 180 mm ± 2 mm
Weight	3,2±0,5 kg
Working temperature	-40÷75°C
Storage temperature	-40÷85°C
Relative humidity	10÷90% (no condensation)
Screen protection	Touchscreen with 3 mm glass panel
Coated with paint	Any RAL color
Level of security	IP65 (front), IP64 (back)

Standards

Norms	EN 50155, EN 45545-2, EN 50121-3-2
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Available models

HMI104-E40	A	B	C	D	Vx
HMI panel (screen diagonal 10,4")	Type of reader: S – slotted, P – proximity or empty	High brightness option: H – yes or empty	Overlay technology: C – capacitive, R – resistive, S – SAW	Number of keys or UIC standard UIC: 3 – three, U – UIC	Connector

Vx – Connector configuration:

- V1 – USB x 2 (front and back), M12 a-code (power supply), M12 D-code ETH x2
- X1 – USB x 1 (back), M12 a-code (power supply), M12 D-code ETH x2
- V2 – USB x 2 (front and back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out)
- X2 – USB x 1 (back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out)
- V3 – USB x 2 (front and back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI
- X3 – USB x 1 (back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI
- V4 – USB x 2 (front and back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI, SMA x 2 (modem antennas)
- X4 – USB x 1 (back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI, SMA x 2 (modem antennas)
- V5 – USB x 2 (front and back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI, SMA x 2 (modem antennas), CAN (DB9 or M12)
- X5 – USB x 1 (back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI, SMA x 2 (modem antennas), CAN (DB9 or M12)
- V6 – USB x 2 (front and back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI, SMA x 2 (modem antennas), CAN (DB9 or M12), C-fast reader
- X6 – USB x 1 (back), M12 a-code (power supply), M12 D-code ETH x2, M12 a-code 5 pin (audio line in/out), HDMI, SMA x 2 (modem antennas), CAN (DB9 or M12), C-fast reader