RUGGED PANEL PC FOR VEHICLE-MOUNT HMIS | HMI-100





FEATURES

- 10.1 IPS LCD, Sunlight Readable
- 10-point capacitive touch screen
- Powerful Octa-core Cortex A72 processor
- Android OS or Linux
- Support 12~36V DC Input
- Support ACC shutdown delay
- Rich IO - CAN, RS232, USB 2.0
- Anti-shock, anti-vibration (MIL-STD-810H)
- IP-65 Water & Dust Protection
- Wide Operation Temperature

Meet the HMI-100—a vehicle-mount HMI/panel PC engineered for forklifts, cranes/telehandlers, agricultural machines, and other industrial vehicle equipment. A sealed, metal chassis resists dust, water, shock, and vibration for around-the-clock duty in warehouses, yards, terminals, fields, and quarries. Operators get fast, eyes-up control via a responsive touch screen (support glove & wet touch) and programmable hard keys for the most-used actions (e.g., mast/attachment presets, camera toggle, boom functions). An enhanced RF design with external-antenna options strengthens Wi-Fi/GNSS/4G-5G coverage across large sites. For integrators, the HMI-100 drops cleanly into existing systems with vehicle-grade I/O optional ISOBUS-ready VT, RS-232, discrete I/O, and multi-camera inputs—plus ignition-sense power and wide-range DC input. Choose Android or Linux to run your apps, diagnostics, logging, and OTA updates. And because Estone is your ODM/OEM partner, we customize mounting, bezel, aviation connectors, firmware/UI branding, and validation to your program requirements—so HMI-100 becomes the dependable Command terminal your fleet can trust.

SPECIFICATIONS

SYSTEM

Processor	4 x Cortex-A72 @2.2GHz, 4 x Cortex-A53 @1.8GHz
NPU	6TOPS NP
GPU	ARM Mali-G52 2EE
Memory	4GB LPDDR5 (Option 8GB)
Storage	64GB eMMC (Option 128GB)
OS	Android 14, Optional: Linux

DISPLAY

Screen Size	10.1'' IPS LCD
Resolution	800 x 1280
Brightness	350 nits, Backlight
	Option 1000 nits backlight
Contrast Ratio	1500:1
Touch Screen	Capacitive 10-Point Multi-Touch
	AG/AR coating option
Top Glass	1.1mm Hardened Cover Glass

COMMUNICATIONS

Wi-Fi	Dual-band 2.4GHz / 5GHz
Bluetooth	Bluetooth 5.0
GPS	Optional Ublox 10

POWER

DC IN	12~36V DC
	Compatible with ISO 16750-2 section 4.6.4,
	Test A (80V level)

I/O & SENSOR

Sensor	Light Sensor
Audio	1 x 1.5W / 8Ω Speaker
	1 x Built-in Mic
I/O Ports	1 x USB 2.0
	1 x CAN
	1 x RS232
	1 x DC (12~36V)
Buttons	Power on/off
	Brightness +/-

MECHANICAL

Dimensions	W271.5 x H209.3 x D55mm
Weight	1300g
Mounting	VESA Mount MIS-D 75x75 mm

ENVIRONMENTAL

Temperature:	
- Operation	-10°C to 60°C
- Storage	-20°C to 70°C
Humidity	10% to 90% RH (Non-condensing)

REGULATORY

Certification	FCC, CE

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DIMENSIONS AND SYSTEM LAYOUT



INDUSTRIAL APPLICATIONS

Construction: Cranes, Excavators, Road roller, Telehandlers, Articulated dump trucks

Agriculture: Tractors, Combines / Forage harvesters, Balers

Mining & Quarry: Ultra-class haul trucks, Large loaders, Drill rigs

Forestry: Forwarders, Skidders, Feller bunchers

Material handling / municipal / airport GSE: Forklifts (Class I–V), Rough-terrain, Heavy/container, Reach stackers & container handlers, Street sweepers

Utilities & specialty: Trenchers, Snow groomers









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