

DG-HMI701 - General Features

- Integrated Intel Atom or Quad Core ARM CPU
- 7" 1024x600 / 16:9 / Active area (154.2mm x 85.9mm)
- High Brightness and Contrast
- Capacitive touchscreen
- Automatic/manual display brightness control
- Gbit Ethernet, USB 2.0 interface
- 9-36VDC input with railway/vehicle grade PSU
- Ignition controlled power supply
- Compliant with EN50155, EN61373 and EN45545-2
- Compliant with ECE Reg 10
- Made and designed in the EU

Applications:

- Coach control interface
- Train, metro, bus Driver HMI
- Passenger information system controller

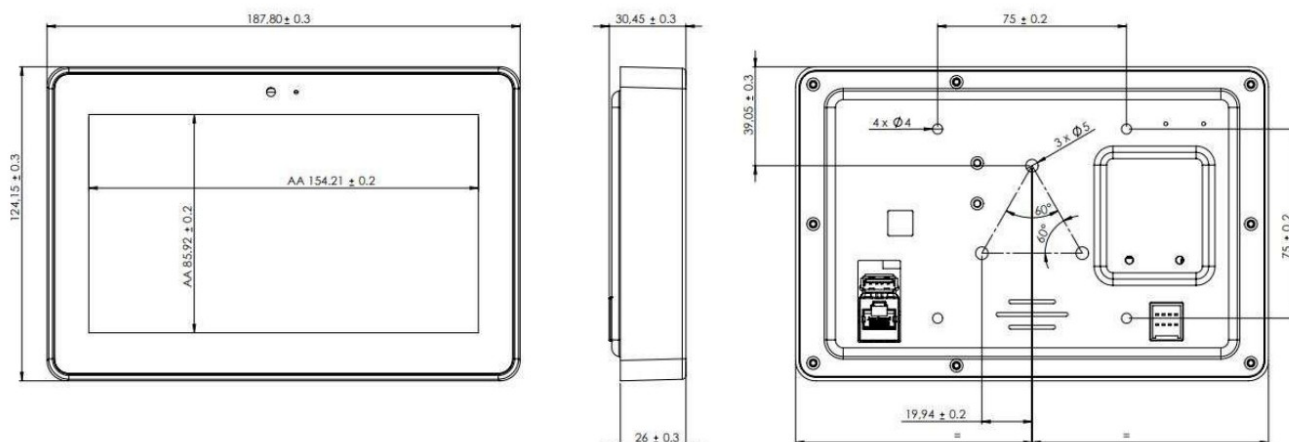


DG-HMI701 – Universal Driver HMI Computer

The HMI701 is a fully integrated 7" 16:9 aspect ratio XGA driver HMI with processor options including x86 ATOM or Quad Core ARM. The internal electronics is purpose-built and laid out on a single board to reduce internal cabling and improve resistance to high vibrations, which are commonly encountered in bus installations. VESA 75 mounting holes and rear-entry cables enable flexible mounting structures.

The automotive grade LCD is combined with a precision bonded capacitive touch screen, which is scratch resistant. A powder coated aluminium frame increases the ruggedness of this device.

DG-HMI701 – Mechanical Drawing



DR-HMI701 Bus/Tram/Train HMI

DG-HMI701 Specifications	
Display	7" Active display area 154,2mm x 85,9mm 1024 x 600 resolution, 16:9 aspect ratio 500 nits, LED backlight with automatic or manual adjustment
Touchscreen	5-wire calibration free capacitive touch screen
Backlight	LED, 50.000hours expected lifetime
CPU ATOM	E3815 Single Core / E3825 Dual Core / E3845 Quad Core processor 1.46GHz / 1.33GHz / 1.91GHz 2GB or 4GB RAM Intel Graphics controller Internal 8 to 16G eMMC Flash, C-FAST / TF accessible under service panel Configurable hardware watchdog
CPU ARM	Quad Core ARM CORTEX-A17 processor 1.8GHz 2GB or 4GB RAM Mali-T760 MP4 GPU Internal 8 to 16G eMMC Flash, C-FAST / TF accessible under service panel Configurable hardware watchdog
Compliance	EN50155, EN50121, EN61373-2 railway and rolling stock ECE Reg 10 vehicle EMC ISO 16750-3 vehicle vibration, shock IEC 60068-2-X environmental conditions
Mechanical and Environmental	Powder coated aluminum-plastic enclosure Weight 0.75kg, VESA75 mounting Operating temperature -20°C to 70°C, guaranteed cold start at -30°C Storage temperature -30°C to 85°C
Interfaces	1x 10/100/1000Mbit Ethernet 1x USB 2.0 Optional Digital I/O, RS-485, CAN Optional Audio I/O, HDMI output for external display
Power	9-36VDC input range (24VDC Nominal)
OS Support	Linux or Android

Datasheet_DG-HMI701_10_12072025