

DMI-1040

10.4" Driver HMI with Intel Atom® x5-E3930 Processor

Features

- Intel Atom® x5-E3930 processor, up to 1.8GHz
- 10.4" color display: 4:3, 1024 x 768 pixels, high brightness 1000cd/m2, 5-wire resistive touch, auto dimming
- 2GB DDR3L memory (up to 8GB optional)
- 32GB eMMC storage
- Power Input Voltage: 24VDC, 36VDC, 72VDC and 110VDC (EN50155 compliant)
- -25°C to +70°C wide operating temperature range (EN50155 class OT3)
- IP65 front and IP20 rear ingress ratings



Specifications

System

Processor

Intel Atom® x5-E3930 Processor, 1.30GHz (Burst 1.8GHz.)

Display

10.4", 4:3 TFT LCD
 1,000cd/m2 luminance
 1,000:1 contrast ratio
 1024 x 768 pixel resolution
 5-wire resistive touch
 Auto dimming

Memory

2GB DDR3L (up to 8GB optional)

Storage

eMMC 5.0 32GB by default, 64GB by request
 1x CFast slot, externally accessible with cover

Ethernet

3x 10/100/1000BASE-T Ethernet ports via M12 X-coded, based on Intel® I210-IT, withstands 2KVrms isolation
 Supports WOL and teaming

USB

1x USB 2.0 port via M8 connector, withstands 600Vrms isolation (supports Full Speed only)

1x USB 3.0 Type A port, 1600mA with dust cover for maintenance

Light Sensor

Auto dimming
 Sensor on front bezel to detect ambient illuminance

External I/O

3x GbE ports via M12 X-coded connectors
 1x USB 2.0 port via M8 connector, withstands 600Vrms isolation (supports Full Speed only)
 1x USB 3.0 Type A port with cover
 1x DB-9 RS-422 serial port, withstand 1KVrms isolation, female connector
 1x DB-9 RS-232 serial port, withstand 1KVrms isolation, male connector
 Reserve two DB-9 cutouts for outputs of CAN/MVB/COM module

Expansion

1x Full-size Mini PCIe slots
 2x SIM card slots

Speaker

2x speakers

Power Supply

1x 12-pin aviation connector
 +24V/+36V/+72V/+110VDC nominal power input
 (16.8V to 137.5V, EN50155 compliant)

Mechanical

Dimension

300x 250 x 80 mm (w/o power connector)

IP rating

IP65 front, IP20 rear

Weight

4.20 kg

Status LEDs

Power status

Software

BIOS

AMI

SEMA

SEMA 3.5

OS

Linux Ubuntu 16.04 LTS, 64-bit

Specifications

- Mechanical & Environmental**

Operating Temperature

-25°C to +70°C, EN50155 class OT3

Storage Temperature

-30°C to +85°C

Humidity

10 ~ 90% RH operating, non-condensing

5 ~ 95% RH storage, EN 60068-2-30, EN 50155

Vibration

5 Grms, 5-500Hz (with SDD), EN61373 Class 1B

Shock

EN50155 standard, method EN61373: 2010, Category 1 Class B

Safety

EN 50153, EN 50124-1

Fire Protection

EN 45545-2, HL3

EMC

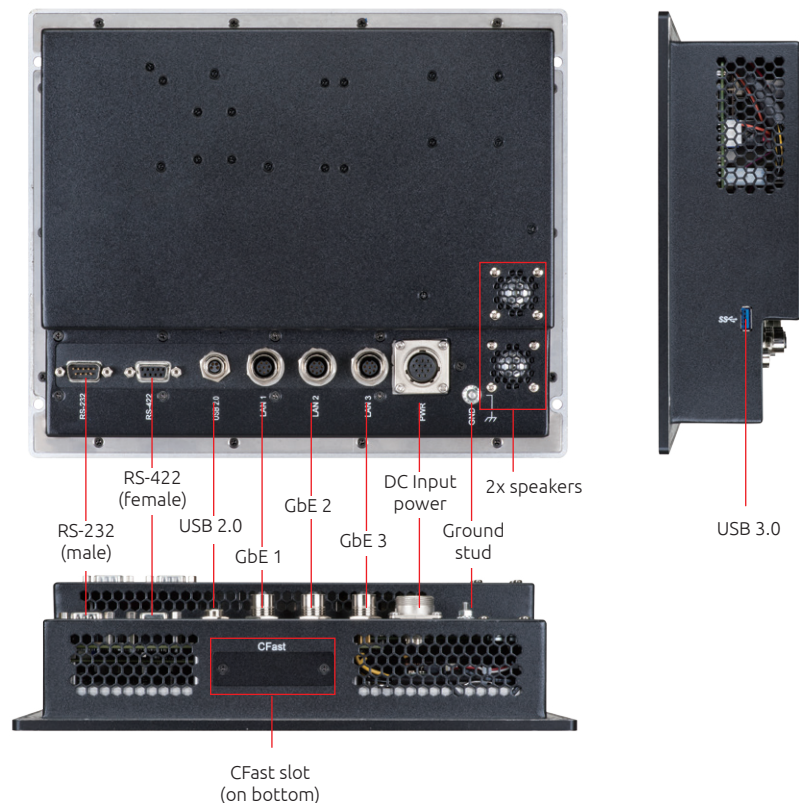
EN50155, EN50121, EN61000-6-4, EN61000-6-2

Altitude

4572m (15000ft) at 25°C

MIL-STD-810G Method 500.5, Procedure II2

Mechanical Layout



Ordering Information

- **DMI-1040, CC**
10.4" touch panel PC, Intel Atom® x5-E3930, DDR3L 1600 4GB, 32GB eMMC, 3x M12 GbE, M8 USB 2.0, 2x COM ports with conformal coating
- **Starter cable kit-DMI-1040**
1x 4-pin A-coded M12 AC/DC power supply cable
3x 8-pin A-coded M12 to RJ-45 Ethernet cable
1x 4-pin M8 to type A USB 1.1 cable
- **Mini PCIe Card MVB kit**
1x Mini PCIe MVB card, Duagon D017M-P-T-I1-Y30C-M3 (PD only, EMD type)
1x Y-split cable to 9-pin D-sub 1x male
- **Mini PCIe Card CAN bus kit**
1x Mini PCIe CAN card, ANTZER FARO-HS100
1x Y-split cable to 9-pin D-sub 2x male
- **Mini PCIe Card cellular kit 01 (for TW, China)**
1x Mini PCIe GSM/TD-SCDMA/CDMA/WCDMA/LTE module (SIMCOM SIM7100C-PCIE)
2x external antennas
2x internal RF cables
- **Mini PCIe Card cellular kit 02 (for Europe)**
1x Mini PCIe GSM/TD-SCDMA/CDMA/WCDMA/LTE module (SIMCOM SIM7100-PCIE)
2x external antennas
2x internal RF cables
- **Mini PCIe Card WiFi/BT kit**
1x Mini PCIe WiFi/BT module (AMPAK AP12356_I)
2x external antennas
2x internal RF cables

Mechanical Drawing

(Units: mm)

