ISIC TRUSTED HARDWARE SYSTEMS

# DuraPANEL 12,1”

**DuraPANEL** panel PC’s are designed for rugged industrial applications, and features:

- Wide temperature range
- Vibration resistance
- High reliability, less down time & service
- High degree of flexibility
- Easy to install
- Rigid mechanical design
- Low Power consumption
- Approved for Bridge use

- Intel® Celeron® Processor 2980U
- Up to 16GB DDR3L RAM
- Quad Gb LAN
- Cool operation thermal design
- DC PSU
- PCAP Touch
- Optional Ambient Light sensor
- LED Backlight

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# Specifications

## DuraPANEL - General

| | |
|---|---|
| **CPU:** | **Intel® Celeron® Processor 2980U (2M Cache, 1.60 GHz) (2 Cores / 2 Threads)** |
| **Memory:** | **2 x SODIMM sockets with 1x 4GB DDR3L 1600MHz mounted**<br>*Up to 16GB DDR3L SODIMM* |
| **Primary Disk Drive:** | **80GB Intel® S3500 SSD SATA**<br>*Optional sizes 120GB / 340GB SSD SATA* |
| **Optional Secondary Disk Drive (Removable):** | **80GB Intel® S3500 SSD SATA (optional)**<br>*Optional sizes 120GB / 160GB / 240GB / 300GB … 800GB SSD SATA* |
| **Video:** | **Intel® HD Graphics controller on-CPU**<br>*DirectX* 11 and OpenGL 4.0 compliant*<br>*Dual Independent display capable* |
| **External Video out:** | **1 x DVI-I video output connector** |
| **Audio:** | **Built-in Buzzer (75-85 dB(A) / 1m)** |
| **Ethernet:** | **4 x 10/100/1000 Mbits/s Ethernet LAN on-board, (RJ45) with auto-negotiate**<br>*1 x Intel® I218 and 3 x Intel® I210AT* |
| **USB:** | **4 x USB 3.0 (max 0,5 Amp per USB, max 5 Watt total)** |
| **COM:** | **1 x RS232/422/485 (configurable)** |
| **OS:** | **Windows 7, Windows 8, Linux** |

## DuraPANEL - Front

| | |
|---|---|
| **Display size:** | **12,1 inch 16:10 LCD (TFT), MVA technology** |
| **Resolution:** | **1280 x 800** |
| **Active area:** | **261 x 163 mm** |
| **View angle:** | **88° (T/B), 88° (L/R) (typical)** |
| **Luminance:** | **400 Cd/m$^2$ (typical)**<br>*Optional Ambient light sensor* |
| **Contrast ratio:** | **1000:1 (typical)** |
| **Touch:** | **10 finger PCAP touch (internal USB interface)** |
| **Front glass:** | **Anti Reflection** |
| **Protection:** | **IP56 (from front, when mounted)**<br>**IP22 (from rear)** |

## DuraPANEL - Power

| | |
|---|---|
| **Standard:** | **18-34VDC Galvanic isolated**<br>*Optional Dual input DC power, Galvanic isolated* |
| **Power Consumption:** | **$P_{typ}$ = 22 Watts, $P_{max}$ = 42 Watts** |

## DuraPANEL - Environmental

| | |
|---|---|
| **Operating Temperature:** | **-15 to +55 °C** |
| **Storage Temperature:** | **-25 to +70 °C** |
| **Relative Humidity:** | **8 to 95 % (non-condensing)** |

## DuraPANEL - Approvals

| | |
|---|---|
| **CE Mark:** | **EN61000-6-2** |
| **Marine:** | **IACS E10 Rev. 6 & IEC 60945 Ed. 4** |
| **Shock:** | **±5G, 10ms in accordance with IEC 60068-2-27** |
| **Certificates:** | **DNV MR certificate** |

## DuraPANEL - Dimensions

| | |
|---|---|
| **Size:** | **396 mm (W) x 256 mm (H) x 63.5 mm (Depth behind bezel)** |
| **Weight:** | **App. 5 kg.** |
| **Optional Bracket:** | **Desk/ceiling-and wall-bracket (VESA 75x75mm)** |

2 page flyer rev. 20.05.2015 Technical specifications are subject to change without prior notice.
For drawing and full technical specifications please consult the users manual.