



15.6" HMI, Ethernet Connectivity, X86

Densitron's high performance 15.6" industrial HMI bezel frame embedded product with a resolution of 1920 x 1080 delivers superior image quality, vibrant colours and excellent 170° viewing angles.

Densitron's modular design of HMI is suitable for applications in Broadcast, Telecommunications, and other networked control and monitoring systems, Test & Measurement, Medical and Industrial.

The embedded X86 platform is Densitron's single board computer based on Intel Apollo N4200 utilising Quad core 1.1GHz with burst frequency of 2.5 GHz. Along with the four CPU cores, the chip integrates a reworked Intel HD Graphics 505 (Apollo Lake) GPU based on Intel's Gen9 architecture supporting DirectX 12.

Densitron's X86 architecture and software ecosystem allows customers to rapidly deploy their applications, thus getting products to market sooner. Both Linux and Windows 10 OS are supported.

Projected Capacitive Touch functionality comes as standard allowing the device to be deployed for HMI applications. Common signal interfaces, such as: Ethernet, USB are available.

Product Features

- Plug and Play monitor working with Windows 10, Linux and Densitron's Aurora SBX TM and other common embedded computing platforms
- High resolution **1920 x 1080**
- Excellent **170°** viewing angles
- Ethernet LAN up to **1Gbps**
- Single 12V power supply
- Intel® Pentium® Processor N Series (**N4200**) Quad processor with **1.10 GHz** with **4GB RAM**
- M.2 Hard drive of **64Gb** used for both OS and storage.
- **Windows 10** OS (Enterprise edition) & **Linux** available on request
- Video encoding and decode hardware acceleration including support.
- **Integrated GPU** base frequency: 200 MHz Max 750 MHz
- This MPU incorporates **Intel's HD Graphics 505 GPU** operating at 200 MHz with a burst frequency of 750 MHz
- The TFT module is designed to operate continuously with an operating temperature range of **0°C to +40°C**
- All modules offer long term availability
- It offers **Projected Capacitive Touch (PCT)** as standard
- **300cd/m2** peak luminance and adjustable PWM backlight



Component	Function	Value	
Computer Board	Processor	Intel® Pentium® Processor N Series (N4200) Quad core processor with 1.10 GHz	
	Memory	4 GB DDR3-1600	
	Storage	64 GB SSD M.2	
	Audio	Line-out (left/right channels) x 1, Mic-in x 1 2 User USB 3.2	
	I/O (External)	Ethernet	Ethernet: 10/100/1000 Mbps x 1. IEEE 802.3af
		12V DC IN Jack	12V DC IN Jack
	Graphic Processor	SD Card Reader Intel® HD Graphics 505 Graphics Base Frequency 200 MHz DirectX*, OpenGL*, Intel® Quick Sync Video	
Panel	Size	15.6"	
	Resolution	1920 x 1080	
	Pixels per inch	141	
	Brightness	300 cd/m ²	
Touch	Type	Capacitive touch	
	Fingers	Multiple touch >5	
O/S	Windows	Available on request	
	Linux (Ubuntu)	Available on request	

15.6" HMI X86



Size	Part Number	Description
15.6"	DM-156GN-MPGR04	15.6" HMI

Contact your local sales office at www.densitron.com

