# N2E-P101/ N2E-P201-W
The Most Powerful and smallest Android^{TM} OLED Driver

Features and Benefits

- Built on Android^{TM} Operating System
- 1 GHz Dual Core DaVinci Processor
- 3D Graphics Accelerator (20 MPoly/sec)
- 300Mhz FPGA with dedicated 256MB Video Memory
- 16 GB Storage for Apps, Maps, Video, Manuals, etc.
- Video Output— All eMagin WUXGA, SXGA, SVGA and VGA OLEDs
- Dual RS170/NTSC/PAL Camera Input with record option and image capture
- Real-time Video/Image Processing
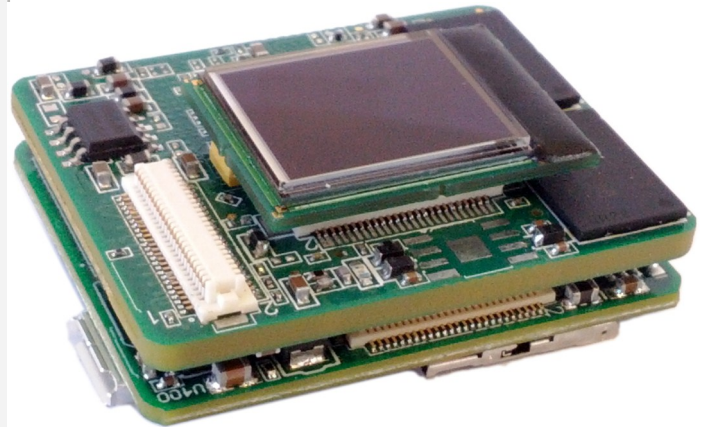
N2E-P1000 Android Powered

MRA Digital is pleased to announced the N2E-P101/201 Android^{TM} power OLED driver platform. With a size of 1.2 x 1.5 inches and powered by a 1GHz Dual Core DaVinci Processor, a FPGA with dedicated 256MB of video for real-time and low latency image/video processing, a Texas Instruments 64xx DSP, and a dedicated 3D video accelerator, the N2E-P101/201 is poised to enable next generation applications to be developed for near-to-eye products and systems.

In addition to its processing power, the N2E-P101/201 boasts up to 16 GB of on board memory for applications, media, video, audio, maps, and content storage. 512 MB of RAM allows for multi-media rich applications to be developed such a real-time GPS (with map), video playback & record, and much more.

The N2E-P201-W offers both WiFi and Bluetooth capabilities and is the same size and form factor. With WiFi near-to-eye products can now access content and data via the internet and provide the user with a rich experience.

The N2E-P101/201 enables advanced self contained applications, and capabilities to be easily integrated to HMDs, Rifle sites, Virtual Binoculars, Night Vision Goggles, and other near-to-ear products. New apps can be developed for your and thus increases its value.

Memory

Application/ Data Storage	4GB, 8GB ,16 GB
FPGA Video Memory	128MB, 256MB

Power Consumption

Input Voltage	5 – 18 V DC
Power Consumption	TBD (Depends on Configuration)

Input Video Format

Dual NTSC, PAL, RS170	Via micro Coax Connector
Video Playback	From SD Card

Output Video Format (OLEDs)

SXGA, WUXGA	1280 x 1024, 1920 x 1200
High Definition	720p,1080p

Mechanicals

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Dimension (L x W)	1.2 x 1.5 inches

Auxiliary Features

GPS, WiFi, Bluetooth, Digital Compass, 3-axis Gyroscope, accelerometer, Picture-in-Picture, Picture-on-Picture, Split Screen, image capture, video Player and much more.

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![MRA digital logo]
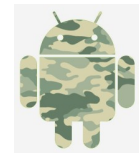
With the N2E-P101/201 product developers can now create new revenue streams by offering their customers value added applications that extends the life and capabilities of their products. With the addition of our navigation module offers Digital Compass, Accelerometers, 3-Axis Gyroscope, and 48 Channel GPS.

Additional Photos
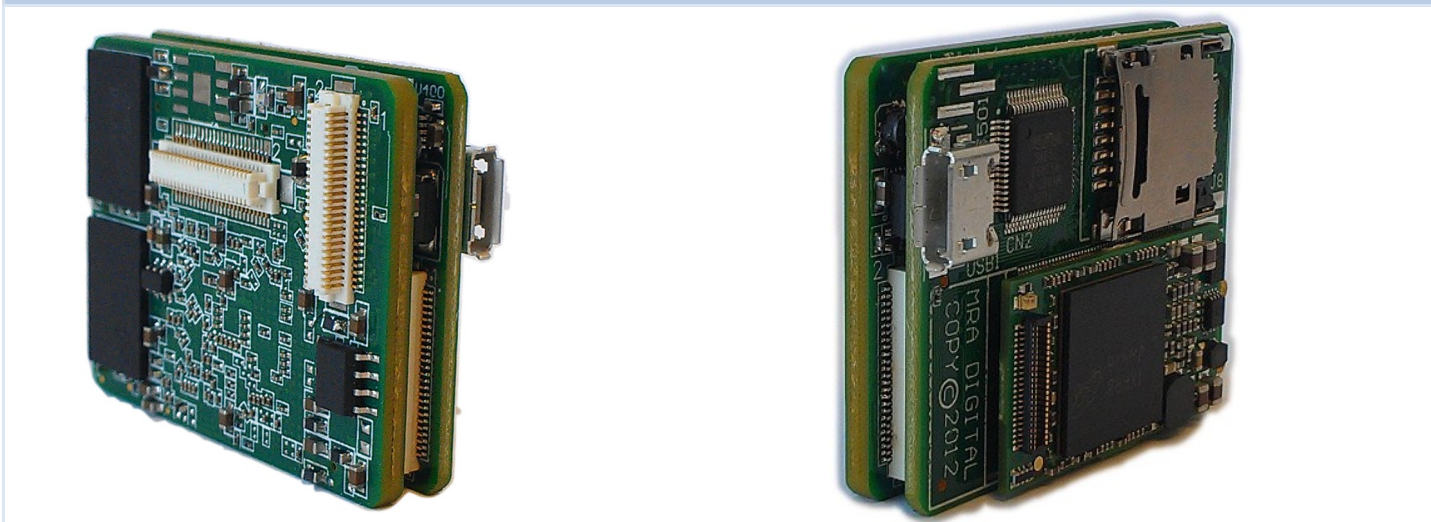
Ordering Information

Part Number	Description
N2E-P101-4-SVGA	Android SVGA OLED Driver 4 GB storage
N2E-P101-8-SVGA	Android SVGA OLED Driver 8 GB storage
N2E-P101-16-SVGA	Android SVGA OLED Driver 16 GB storage
N2E-P101-4-SXGA	Android SXGA OLED Driver 4 GB storage
N2E-P101-8-SXGA	Android SXGA OLED Driver 8 GB storage
N2E-P101-16-SXGA	Android SXGA OLED Driver 16 GB storage
N2E-P101-16-WUXGA	Android WUXGA OLED Driver, WiFi, Bluetooth, 16 GB storage
N2E-P201-16-SVGA	Android SVGA OLED Driver, WiFi, Bluetooth, 16 GB storage
N2E-P201-16-SXGA	Android SXGA OLED Driver, WiFi, Bluetooth, 16 GB storage
N2E-P201-16-WUXGA	Android WUXGA OLED Driver WiFi, Bluetooth,16 GB storage
Navigation Option	Added –NAV option to indicate Navigation Module

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