

## NEW 7.0" IPS TFT DISPLAYS

Our newest line of IPS with cape, EVE, HDMI and touchscreen options.



Our new line of IPS includes nine TFT models, each with 800x480 pixel resolution and offers a variety of features. These 7.0" displays offer better quality imagery and graphics, and can be read easily in bright sunlight. They show consistent, accurate colors from any angle, no matter how they're mounted in various industry devices with or without a touchscreen. Existing users of our 7.0" TN displays can easily upgrade their display to these new IPS models due to their backwards compatibility made possible by an identical pinout, mechanical footprint and software timings.

The IPS displays include built-in EMI shielding and are available with different touchscreen options such as capacitive, resistive or no touchscreen. Additionally, the base displays can be paired with one of our custom boards for an upgraded module with EVE, HDMI, or BeagleBone cape.

The EVE Modules provide a one-chip solution for managing graphics, touch, and audio with a single graphics controller by Bridgetek. These modules are compatible with Arduino boards and can be paired with the Arduino shield (NHD-FT81x-SHIELD) for easy connectivity.

The HDMI Modules feature the Texas Instruments TFP401A HDMI receiver and Microchip PIC18 microcontroller – two of the most reliable and highly-regarded chipsets on the market – to provide the user an all-in-one, plug-and-play HMI solution.

The BeagleBone cape is designed to simplify prototyping and development. Its design structure facilitates immediate development with Linux and Android platforms and is available with a capacitive touchscreen.

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## TFT Features

- 7" Diagonal with 800x480 pixel resolution
- BeagleBone cape, EVE, and HDMI module options
- Sunlight readable (1,000 cd/m<sup>2</sup>)
- IPS Full viewing angles
- 24-bit Parallel RGB, Single/Dual/Quad-SPI, and HDMI interface options
- Capacitive, resistive, or no touchscreen
- Built-in EMI shielding
- Backwards compatible with 7.0" TN models

## Product Part Numbers

- > NHD-7.0-800480AF-ASXP
- > NHD-7.0-800480AF-ASXP-T
- > NHD-7.0-800480AF-ASXP-CTP
- > NHD-7.0-800480FT-CSXP
- > NHD-7.0-800480FT-CSXP-T
- > NHD-7.0-800480FT-CSXP-CTP
- > NHD-7.0-HDMI-N-RSXP
- > NHD-7.0-HDMI-N-RSXP-CTU
- > NHD-7.0-CTP-CAPE-P