

# Amulet Technologies

## High-Performance 7" Capacitive GEMmodule™



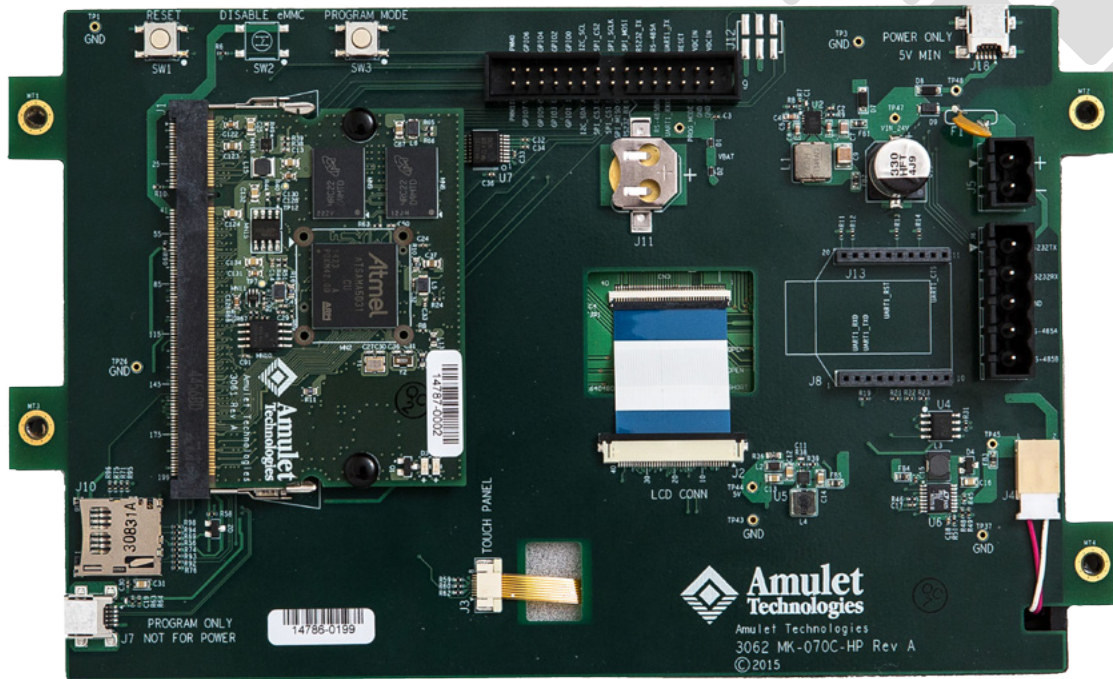
### Just the Right Touch – 7" Capacitive Touch Screen Display

Amulet's capacitive 7" GEMmodule™ (MK-070C-HP) is the newest member of fully customizable, high-performance, touch screen display modules. The GEMmodule has a 7" WVGA LCD and features a robust capacitive touch panel. The thick protective cover glass, along with the water resistant and glove-enabled touch panel, provides the ideal features required in the embedded industrial and medical equipment markets. Utilizing Amulet's own GEMstudio Pro™, the most comprehensive GUI design environment, a complete production ready solution with innovative touch controls and beautiful graphics can be realized in record time.

Amulet provides its own unique and highly optimized graphical operating system, specifically written for the capacitive 7" GEMmodule. The GEM OS offers a small software footprint, allowing for extremely fast startup times and lightning quick touch responses. The MK-070C-HP comes with 4GB of onboard flash storage and 4GB of DDR2 SDRAM, allowing for fast rendering and storing of many high resolution images.

The capacitive 7" GEMstarter-kit™ (STK-070C-HP) includes everything needed to create and drive a graphical user interface (GUI), including an 800 x 480 TFT LCD, a capacitive touch sensor and controller board, USB PC interface cable, and a USB power cable.





## Module

- 536Mhz ARM A5 Processor
- 4GB of DDR RAM at 166Mhz
- 4GB eMMC Flash and  $\mu$ SD Card Socket
- Operating Temperature: -20°C to 70°C

## Display

- 7" WVGA (16:9 diagonal)
- Luminance: 500 nit (cd/m<sup>2</sup>)
- Contrast Ratio: 400:1
- Viewing Angle: 60° Top-Bottom, 70° Left-Right

## Touch Panel

- Projected Capacitive Touch
- Operates with gloved hands and rejects liquids
- Gestures: Tap, Flick, Scroll, Finger Swipe
- 1.1 mm protective cover glass

## Interfaces

- 1 UART-TTL socket for the common 02.15.4 XBee wireless footprint
- 1x SPI with 3 Chip Selects
- 1x I2C
- RS-485
- RS-232
- 8x GPIO
- 2x PWM
- USB 2.0 Device Interface

## Power

- Multiple options for input power including
  - 12V DC
  - 24V AC
  - 5V USB power
- RTC with battery backup



### Want More Information?

Call or email us today! Also visit us on the Web at [www.amulettechnologies.com](http://www.amulettechnologies.com) for the latest data sheets, programmer's guide, software updates and more.

Amulet Display Modules are available through Amulet franchised distributors. Visit our website for direct "order now" links.

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