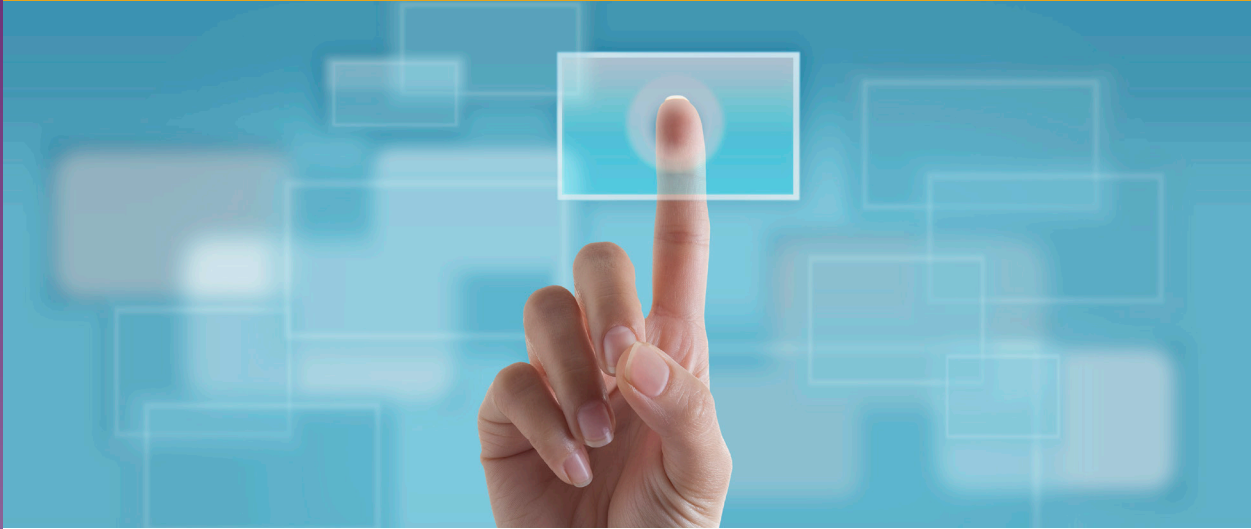# Amulet Technologies

Capacitive 4.3" GEMmodule™

OVERVIEW

Amulet's Capacitive 4.3" GEMmodule™ family consists of fully integrated drop-in solutions that allow customers to implement a Graphical User Interface with a smartphone-like look and feel in record time-to-market. The modules have gesture support and can be programmed using GEMstudio™, the easiest and most flexible GUI design software tool in the embedded space. When developing their GUI, customers can go through as many iterations as necessary, making corrections in real time and testing results immediately. With Cypress TrueTouch™ technology, the Amulet Capacitive 4.3" GEMmodule™ family provides unparalleled signal-to-noise ratio and excellent touch performance.
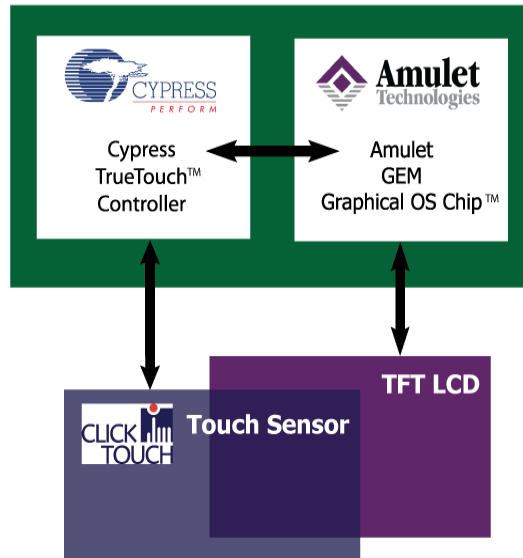
Module Components:

- Amulet GEM Graphical OS Chip™
- 4.3" TFT LCD
- Projected capacitive P-CAP touch sensor from ClickTouch™
- Cypress TrueTouch® Touchscreen Controller

Features:

- Best in class accuracy, linearity and fast refresh rate
- Supports multitouch gestures with superior accuracy – highest signal to noise ratio (SNR)
- Quick and flexible GUI design with GEMstudio™ software development tool
- Color Depth - up to 24bit + 8bit alpha; graphics supported - GIF, JPEG, PNG
- Built in font converter, foreign language character sets (Unicode)
- On board memory (32megabit data flash) for storing GUI pages
- White LED backlight with PWM control (user interface or programmable via GEMstudio™)
- 24 pin interconnect for serial interface(s) - USB, 3.3vUART, RS232

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Module Specifications:

Display Type	4.3" TFT LCD Color Display
Display Resolution	480 x 272 (WQVGA)
Backlight Type	Ultrabright White LED
Backlight Control	PWM
Viewing Angle	6 o'clock
Operating Temperature	-20°C to 70°C
Power Requirement	5Vdc (±.25v) @ 250mA
Communication Type	Amulet Protocol via 3.3V UART, USB, RS232
Data Rate (BAUD)	9,600/19,200/57,600/115,200 bps
Development Kit Avialable	STK-CY-043

Want More Information?
Call or email us today! Also visit us on the Web at 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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