



**Amulet**  
Technologies



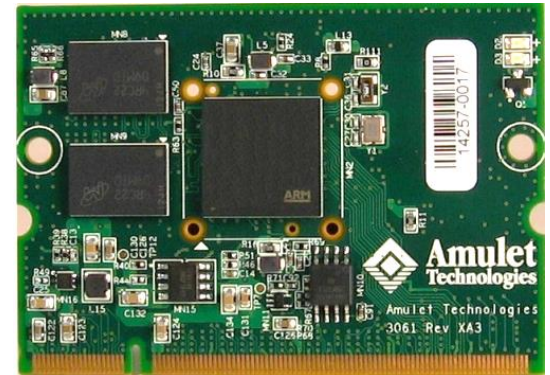
**High Performance 7.0" Capacitive Module**

# Overview

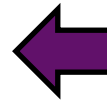
The MK-070C-HP is the first of a family high performance display modules especially designed for the embedded market.



Graphics Engine can support a variety of LCDs and touch panels



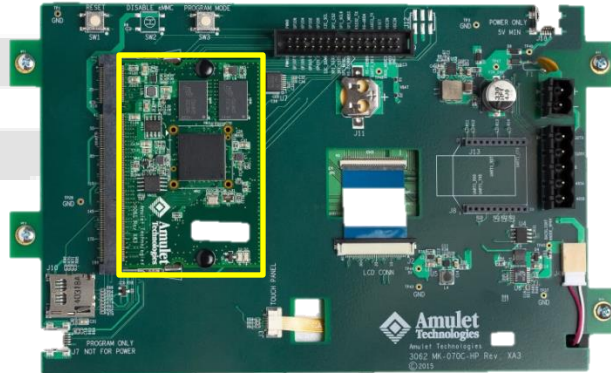
**System-on-Module (SoM)**



# It's all about the performance...



A screaming fast processor with memory to match!



	<u>MK-070C-HP</u>	<u>MK-070R</u>	<u>Increase</u>
Processor	540MHz	80MHz	<b>6.7x</b>
Flash	4GB	8MB	<b>500x</b>
RAM	4GB	32MB	<b>125x</b>
External Flash	64GB+	N/A	-----
Brightness	500 nit/cd/m <sup>2</sup>	350 nit/cd/m <sup>2</sup>	<b>30%</b>
Touch	PCAP	Resistive	-----

***WVGA, XGA, WXGA, SXGA and beyond...***

# Target Markets



Specialty Vehicles



HVAC



Building Automation & Controls



Industrial Control



Medical



Commercial Appliances

# Performance Features- Software (GUI)

## **Embedded GEM OS™ utilizing GEMstudio™ Pro for seamless HMI design:**

- ✓ High-End Graphic Performance without an RTOS
- ✓ Keep legacy hardware/software, works with small processors
- ✓ 24 Bit Color + 8 bit Alpha Channel (transparency)
- ✓ Four Graphic Overlays for consumer electronic quality graphics
- ✓ Display Rotation
- ✓ Full Embedded Widget Library (view & control objects)
- ✓ GEMstudio Pro™ API

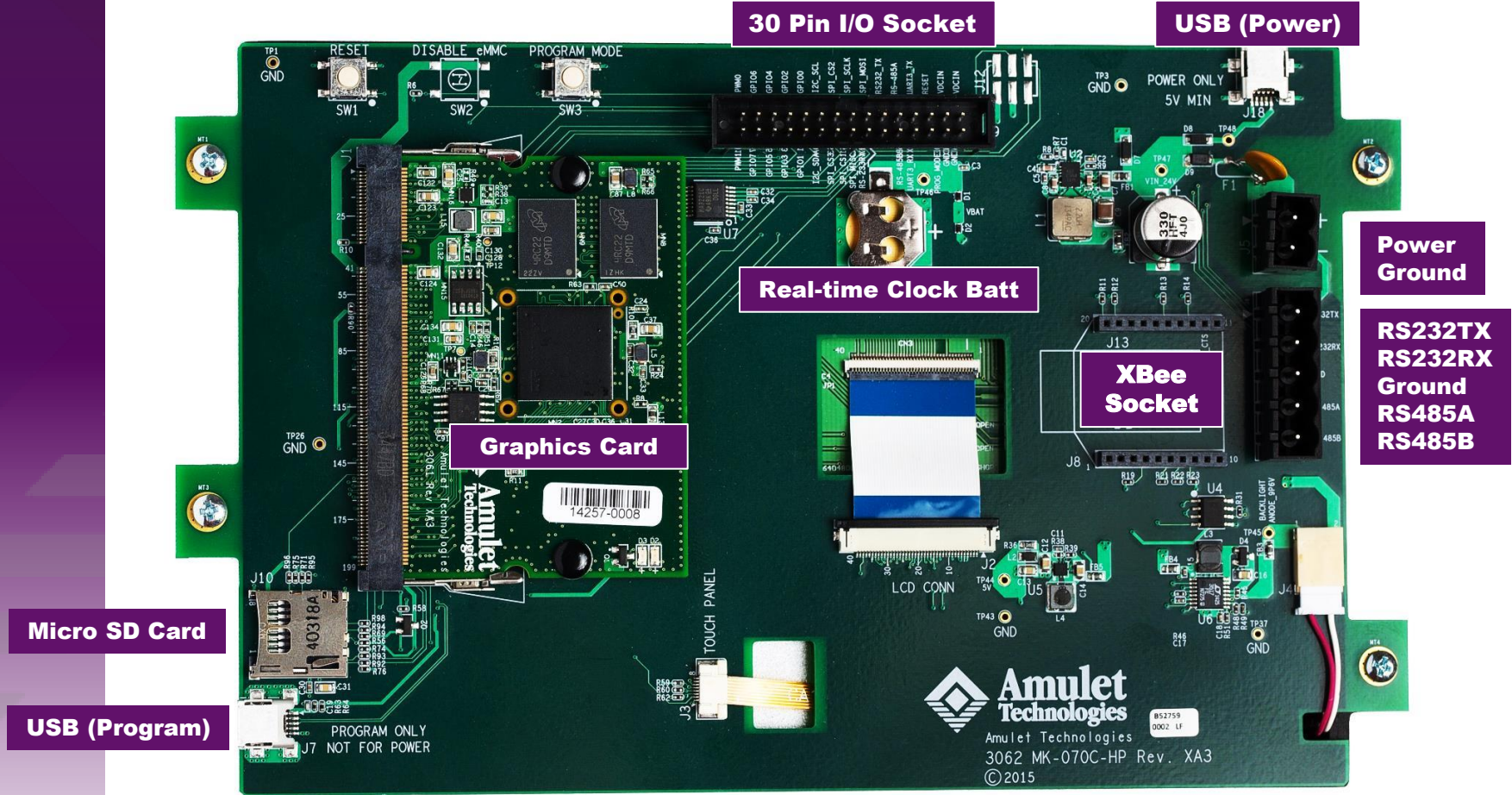
# Capacitive Touch



UICO **duraTOUCH**® technology - Cypress PSoC IC

- ✓ High Signal to Noise Ratio (SNR) for Superior Accuracy
- ✓ Works with Gloved Hands - **gloveSENSE**®
- ✓ Rejects water - **waterSENSE**®
- ✓ Chemically Hardened Lens – 1.1mm
- ✓ Gestures – Tap, Double Tap, Flick, Scroll

# Behind the Scene Details

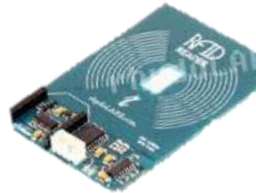
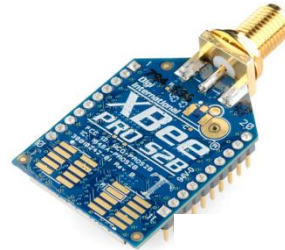
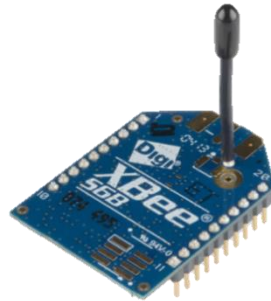
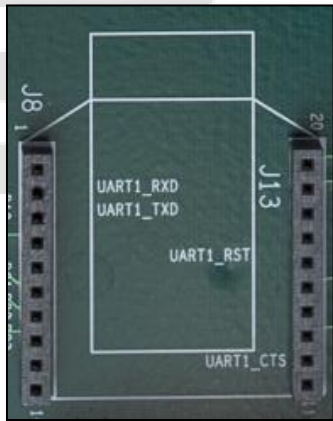


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3062 MK-070C-HP Rev. XA3  
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# Communication Options

## XBee Socket

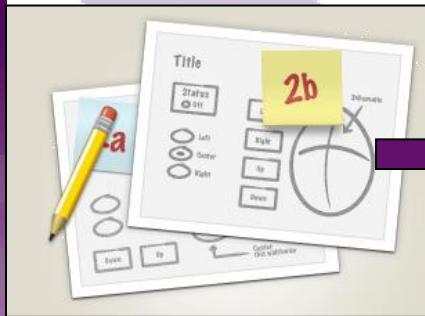
Besides the fixed connectors for UART (TTL), RS232 and RS485 the MK-070C-HP includes a XBee socket for many other communication options and features:



# GUI Design - GEMstudio Pro™

## GEMstudio Pro™

- ✓ Ideally suited for industrial designers as well as embedded engineers
- ✓ GUI design layout tool, editor and compiler all-in-one product
- ✓ Simulator allows you to develop and interact with the GUI on your PC
- ✓ Fastest and easiest GUI design tool in the market!



1

*Design GUI*



2

*Import Graphics  
Drag-n-Drop Layout*



3

*Production Ready*

# Questions?



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## Contact Us

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