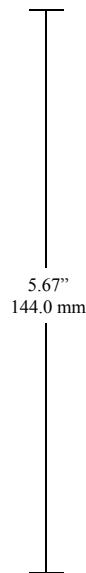
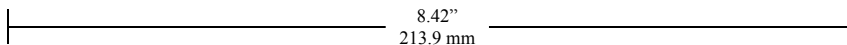


Hydra-Q6™: Rugged, Customizable ARM Tablet, Featuring Sunlight Readable Display



Features

- ◆ Quad, dual or single-core Cortex-A9 NXP/Freescale i.MX 6 processor
- ◆ 7" WSVGA (1024x600), sunlight-readable display with touchscreen, brightness control and automatic display rotation
- ◆ Rugged: MIL-STD-810G, MIL-STD-461F, and IP67
- ◆ Two programmable buttons
- ◆ 802.11 b/g/n, Bluetooth 4.2, GPS
- ◆ IP-67 Ethernet, USB, USB OTG, DC input, and expansion connectors
- ◆ 5MP camera, digital microphone and speaker outputs
- ◆ Gloved operation in all weather conditions
- ◆ Easily customized for application specific use



For jobs that demand fast performance, wireless and wired connectivity, and the ruggedness to survive the harshest environments, InHand has developed the Hydra-Q6™ rugged tablet. Utilizing the multi-core Cortex-A9 i.MX 6 processor from NXP/Freescale and a full color sunlight-readable display, the Hydra-Q6™ was created for military, medical, or other industrial or commercial uses. The fully rugged tablet offers the versatility and portability of a consumer tablet with the durability and long production life of a MIL-SPEC mobile device.

The InHand Hydra-Q6™ meets wide-ranging specifications for temperature, fluid contaminants, solar radiation, fungus and immersion, while offering the full functionality expected from a compact mobile tablet. The tablet design features a 7" WSVGA, sunlight-readable display with automatic brightness control and display rotation. A multi-touch resistive touch panel, power button, and two programmable buttons (which default to volume control) make up the user interface. Features include: camera, microphone, stereo speaker output, haptic feedback, and 44 WHr of Lithium Polymer battery capacity. The low-power design can run up to 8 hours on a full charge.

IP67 waterproof USB 2.0, USB OTG, Gigabit Ethernet, DC power input, and expansion connectors provide extensive wired interfaces that complement the tablet's Wi-Fi and Bluetooth BLE wireless interfaces. Rugged buttons and water protected speakers allow the tablet to get the job done through challenging environmental conditions.

The Hydra-Q6™ is available as a commercial off-the-shelf (COTS) tablet or with InHand's full range of design services to customize it for application-specific needs. Options include alternative display sizes, camera resolutions, peripherals, connector and docking solutions, operating systems, configuration lock-down, security features, and centralized asset tracking. Fully custom tablets may be private labeled with enclosures of alternate sizes, colors, shapes, buttons, hand controls, external connections, materials, and designed to meet product requirements.

Hydra-Q6™ Specifications

Processor	NXP i.MX 6 Cortex-A9 Quad or Dual; Industrial or automotive grade Multimedia support: 2D, 3D & encode/decode HW acceleration including H.264; OpenGL
RAM	1, 2, or 4 GB DDR3L
Mass Storage	eMMC NAND, 4 - 128 GB; microSD card slot
Wireless	802.11 b/g/n/ac; Bluetooth 4.2 (BLE and Classic). M.2 plug-in module
Global Positioning	On-board GPS with Galileo, GLONASS, and BeiDou support
USB	1 USB 2.0 OTG; 1 USB 2.0 Host
Ethernet	10/100/1000 Ethernet MAC+PHY
Audio	Audio codec; stereo speaker drive; digital mic-in
Camera	5 MPixel rear facing color camera with autofocus (for barcode scanning; image capture)
Display	7" WSVGA (1024x600) sunlight-readable display with automatic brightness and rotation control
Touchscreen	Resistive multitouch; Option for capacitive touch
Sensors	Accelerometer; magnetometer; barometer; temperature sensor; ambient light sensor
Haptic feedback	On-board motor
Expansion Connector	I2C, GPIO, CAN, debug UART. Ethernet, USB, and DC input can be rewired to this connector. 5V or 12V output can be provided upon request.
Security	ARM TrustZone, Cryptographic Acceleration and Assurance Module (CAAM), true random number generator, High Assurance Boot, hardware watchdog, real time clock, InHand SecuritySmart™
Batteries	44 WHr of Lithium Polymer battery capacity with internal charging and fuel gauge
DC Power Input	12V DC input via barrel jack; 5 VDC input via USB OTG
Operating System	Android Nougat 7 or later; Linux 4.9 or later; Contact InHand about VxWorks and Windows availability
Dimensions (tentative)	Enclosure: 8.42" x 5.67" x 1.1"; With protrusions: 8.49" x 5.90" x 1.1"
Weight	865 grams
Rugged Specifications (target)	Method 501.5, Procedure II, temp = 70°C (high temp), Method 502.5, Procedure II, temp = -35°C (low temp), Method 504.1 Procedure II, fluids from table 504.2, 8 hour exposure (fluid contaminates), Method 505.5, Procedure I for worldwide deployment (solar radiation), Method 508.6, 28 minimum growth (fungus), Method 512.4, Procedure I, at 27°C ambient air temperature above water temperature at a depth of 1m for 30 min. (immersion), Method 514.6 Procedure I (Category: 4, 24) and Procedure II (various vibration), Method 516.6, Procedure I, 40g, 11ms, saw-tooth, 3 shocks +/- per axis, 3 axes (shock), Method 516.6, Procedure IV, up to 48" drop, 26 total drops (transit and operating drop)

Ordering Information

Part Number	Description
HYD-Q6-4227A0	Hydra-Q6 tablet with i.MX6 Quad Core, 2GB DDR3L, 32GB flash, 1024x600 7" display, GPS, WiFi/BT
HYD-Q6-4221A0	Hydra-Q6 tablet with i.MX6 Quad Core, 2GB DDR3L, 32GB flash, 1024x600 7" display, GPS. No WiFi/BT

Call or email for pricing, availability, and additional configurations.

Contact Information

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InHand Electronics, Inc. is an original design manufacturer of single board computers and rugged devices for original equipment manufacturers. InHand offers commercial off-the-shelf (COTS) computing platforms and modified COTS design services for custom electronic and Internet of Things product solutions. InHand's products are used in a variety of markets including: military, healthcare, industrial, transportation, entertainment, education, infrastructure, and instrumentation. Products feature industry-leading technologies such as: NXP, Texas Instruments, Intel and Marvell processors; Android, Linux, VxWorks (RTOS), and Microsoft operating systems; and communications technologies such as: cellular, Wi-Fi, personal area network, and Ethernet. InHand's engineering design services include: system, hardware, software, and packaging; support services include: product manufacturing, program management, manufacturing test development, and supply chain. InHand is an ITAR registered company. CAGE code 8Z220. InHand products are designed and assembled in the USA. The company's headquarters are located along the I-270 Technology Corridor in Rockville, Maryland. For more information, visit www.inhand.com.



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