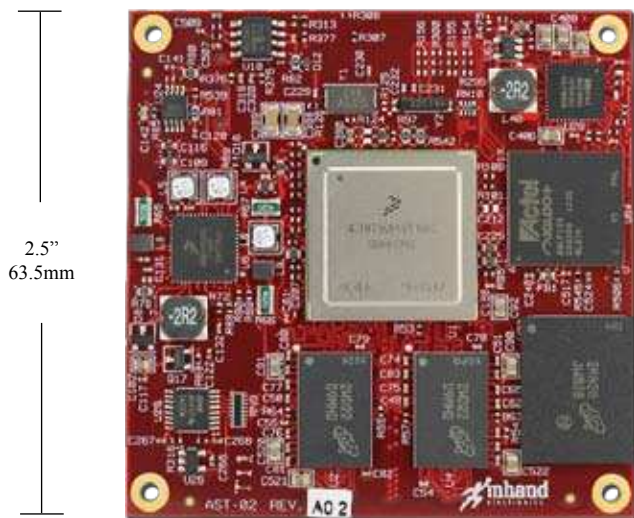


# InHand Fury-F6™: Compact, Media-Rich Embedded System Based on Freescale's Cortex-A9 Processor

Based on the Freescale™ i.MX 6 processor, InHand created the Fury-F6™ (FF6) single board computer (SBC). This embedded system delivers exceptional performance in speed and functionality without sacrificing size, quality or power. The FF6 offers dual or quad-core capabilities, opening up a wide range of on-board peripherals.

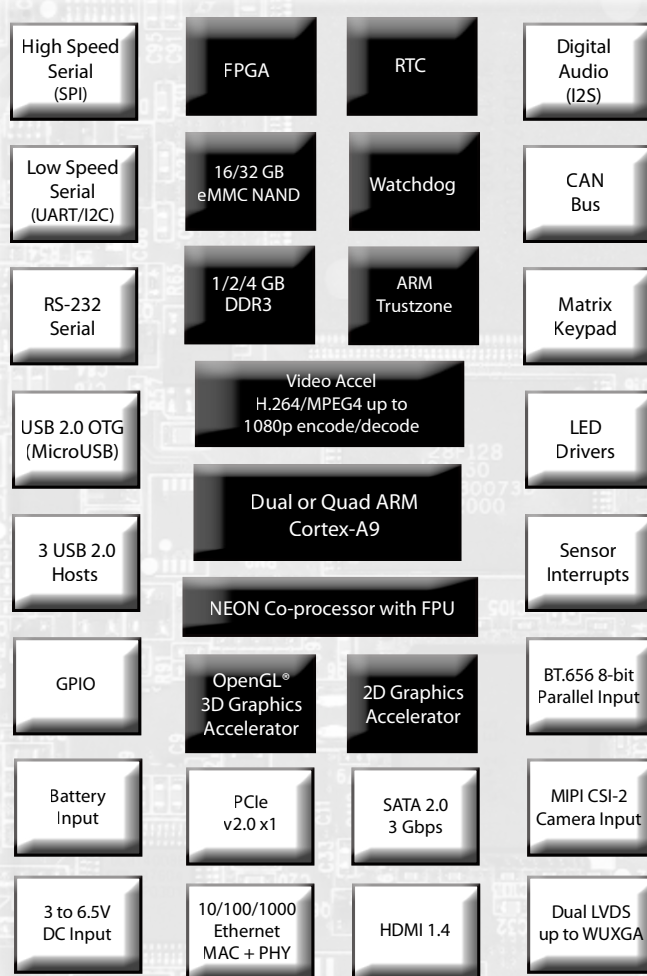
Peripherals include: USB 2.0 OTG, 3 USB 2.0 Hosts, 1/2/4 GB DDR3, 16/32 GB eMMC NAND Flash, RTC, Watchdog, low speed and high speed serial ports, 10/100/1000 Ethernet MAC+PHY, MIPI CSI-2 camera input. For multimedia expansion, the FF6 includes an H.264/MPEG4 video accelerator with up to 1080p encode/decode, 2-D graphics accelerator, and OpenGL® 3-D graphics accelerator.

The off-the-shelf (OTS) SBC can be used with InHand's OTS expansion board, Muse-F6 (MF6). The MF6 is offered as an individual I/O board to bring out all of the peripherals the FF6 has to offer. For customers with more specific needs, InHand's engineering services can create custom solutions for expansion boards (or custom i.MX 6 based SBC's) to meet exact project requirements.



2.5"  
63.5mm

2.5"  
63.5mm



- ◆ Based on Freescale™ i.MX 6 processor; option for dual or quad core
- ◆ Multi-media expansion including NEON media processing engine (MPE) co-processor
- ◆ Peripherals include: USB 2.0 OTG and Host, 16/32 GB eMMC NAND Flash, 1/2/4 GB DDR3, 10/100/1000 Ethernet MAC+PHY
- ◆ OTS expansion board or custom daughter card

## InHand Fury-F6™ Specifications\*

|                                    |  |
|------------------------------------|--|
| <b>CPU</b>                         | Freescale i.MX 6 dual or quad core ARM Cortex-A9, 1.2GHz with NEON Media Processing Engine (MPE)   |
| <b>RAM</b>                         | 1, 2, or 4 GB DDR3   |
| <b>On-board Storage</b>            | 16 or 32 GB eMMC NAND  |
| <b>Serial</b>                      | 2 UARTs, 3 I2C, SPI  |
| <b>USB</b>                         | 1 USB 2.0 OTG; 3 USB 2.0 Hosts   |
| <b>SDHC</b>                        | 2 SDHC v.3.0   |
| <b>CANBus</b>                      | 1 CANBus 2.0   |
| <b>Digital Audio</b>               | 1 I2S Digital Audio Interface  |
| <b>Keypad</b>                      | Matrix keypad 2x3  |
| <b>GPIO</b>                        | 8 Digital GPIO lines plus power control GPIOs, LED drive lines, sensor interrupts (accelerometer, barometer, light sensor)                 |
| <b>Ethernet</b>                    | 10/100/1000 Ethernet MAC+PHY   |
| <b>Camera/Multi-Media</b>          | 1 MIPI-CSI interface, 1 8-bit BT.656 Parallel Interface  |
| <b>Display Support</b>             | 2 LVDS outputs - up to WUXGA (1920 x 1200), HDMI 1.4 - simultaneous use supported  |
| <b>Multi-Media Accelerator</b>     | Simultaneous H.264/MPEG-4 1080p30 encode and decode. VC-1, DivX/Xvid, MPEG 1/2 decode up to 1080p30  |
| <b>Security</b>                    | ARM TrustZone, Cryptographic Acceleration and Assurance Module (CAAM), True random number generator  |
| <b>Battery Support</b>             | LiIon Battery Input  |
| <b>DC Power Input</b>              | 3 to 6.5V DC Input   |
| <b>RTC</b>                         | Battery backed real-time clock   |
| <b>Watchdog</b>                    | Hardware watchdog on board   |
| <b>Operating System</b>            | Android Jellybean 4.2; consult factory for Windows® Embedded Compact 2013 and Windows Embedded Handheld 8                                  |
| <b>Off-Board Peripheral Driver</b> | 802.11 b/g/n, Bluetooth, Battery Charger, Battery Gas Gauge, Accelerometer, Ambient Light Sensor, Digital Compass, Barometer, Haptic motor |
| <b>Dimensions</b>                  | 63.5mm x 63.5mm x 6mm  |
| <b>Power Consumption</b>           | TBD  |

## Ordering Information

| Part Number | Description                           |
|-------------|---------------------------------------|
| FF6-9SBC-02 | Fury-F6 Standard SBC, Dual Core       |
| FF6-9SBC-04 | Fury-F6 Standard SBC, Quad Core       |
| FF6-DP-01   | Fury-F6 Standard Development Platform |

Call or email for pricing and availability. Refer to part numbers above.

\*Subject to change.

## Contact Information

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*InHand Electronics, Inc. is an original design manufacturer of single board computers and rugged handhelds for original equipment manufacturers. InHand's products are used in a variety of markets including: military, healthcare, industrial, entertainment, and instrumentation. Designs include: UMPCs, PDAs, wearable computers, tablets, handheld control systems, industrial computers and smart sensors. InHand's products are built on industry-leading technologies such as: Freescale, Intel, Texas Instruments, and Marvell processors and Android, Linux, Ubuntu, and Microsoft operating systems. InHand is an ITAR registered company. InHand products are designed and assembled in the USA. The company's headquarters are located along the I-270 Technology Corridor in Rockville, Maryland.*

