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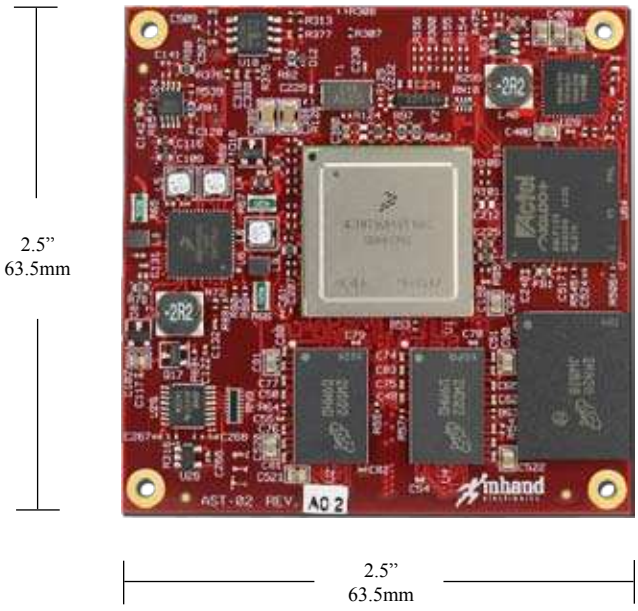
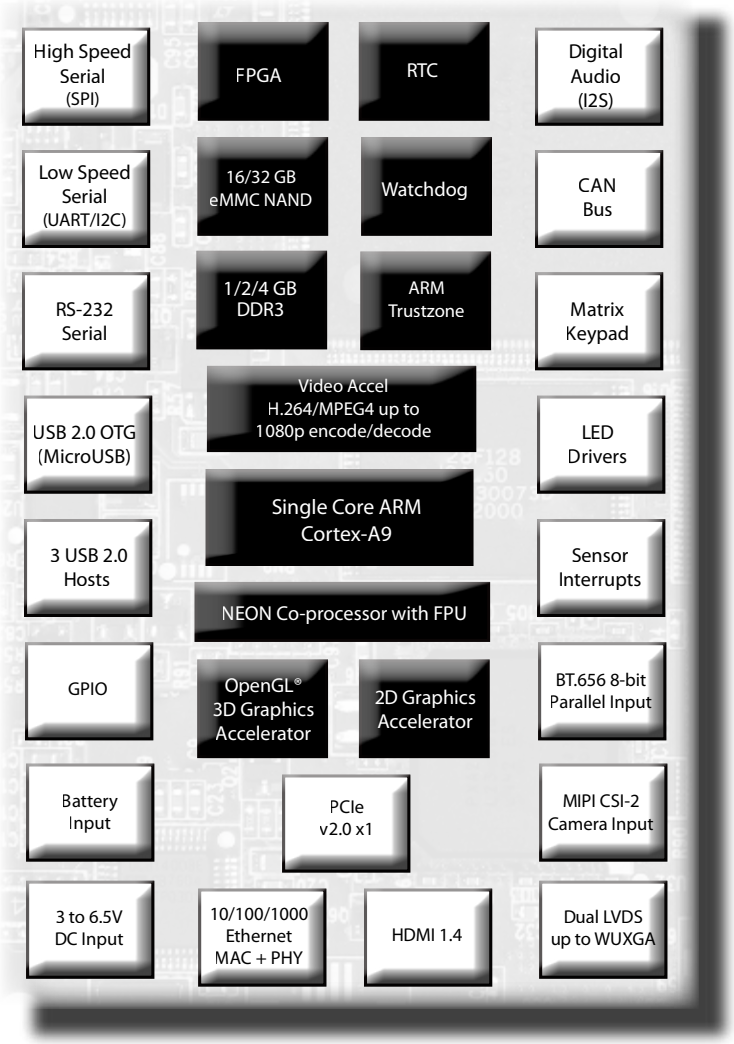
InHand Siren-F6™: Compact, Media-Rich Embedded System Based on Freescale's Cortex-A9 Processor

Based on the Freescale™ i.MX 6 processor, InHand created the Siren-F6™ (SF6) single board computer (SBC). This embedded system delivers exceptional performance in speed and functionality without sacrificing size, quality or power. The SF6 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, 512 MB or 1/2 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 SF6 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.





- Based on Freescale™ i.MX 6 Cortex-A9 single core processor
- 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, 512 MB or 1/2 GB DDR3, 10/100/1000 Ethernet MAC+PHY
- OTS expansion board or custom daughter card

InHand Electronics, Inc. • 30 West Gude Drive • Suite 550 • Rockville, MD 20850 • v: 240.558.2014 • f: 240.558.2019 • **www.inhand.com**

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InHand Siren-F6™ Specifications

CPU	Freescale i.MX 6 single core ARM Cortex-A9, 1 GHz with NEON Media Processing Engine (MPE)
RAM	512 MB, or 1 or 2 GB DDR3
On-board Storage	16 or 32 GB eMMC NAND
Serial	2 UARTs, 3 I2C, SPI
USB	1 USB 2.0 OTG; 3 USB 2.0 Hosts
SDHC	2 SDHC v.3.0
CANBus	1 CANBus 2.0
Digital Audio	1 I2S Digital Audio Interface
Keypad	Matrix keypad 2x3
GPIO	8 Digital GPIO lines plus power control GPIOs, LED drive lines, sensor interrupts (accelerometer, barometer, light sensor)
Ethernet	10/100/1000 Ethernet MAC+PHY
Camera/Multi-Media	1 MIPI-CSI interface, 1 8-bit BT.656 Parallel Interface
Display Support	2 LVDS outputs - up to WUXGA (1920 x 1200), HDMI 1.4 - simultaneous use supported
Multi-Media Accelerator	Simultaneous H.264/MPEG-4 1080p30 encode and decode. VC-1, DivX/Xvid, MPEG 1/2 decode up to 1080p30
Security	ARM TrustZone, Cryptographic Acceleration and Assurance Module (CAAM), True random number generator
Battery Support	LiIon Battery Input
DC Power Input	3 to 6.5V DC Input
RTC	Battery backed real-time clock
Watchdog	Hardware watchdog on board
Operating System	Android Jelly Bean 4.2.2; consult factory for Windows® Embedded or Linux
Off-Board Peripheral	802.11 b/g/n, Bluetooth, Battery Charger, Battery Gas Gauge, Accelerometer, Ambient Light
Driver	Sensor, Digital Compass, Barometer, Haptic motor
Dimensions	63.5mm x 63.5mm x 6mm

Ordering Information

Part Number	Description
SF6-9SBC-1110	Siren-F6 Standard SBC, 16 GB Flash, 512 MB DDR3
SF6-9SBC-1210	Siren-F6 Standard SBC, 16 GB Flash, 1 GB DDR3
SF6-DP-01	Siren-F6 Standard Development Platform

CAGE code: 8Z220
Call or email for pricing and availability. Refer to part numbers above.

Contact Information

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v: 240.558.2014

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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.

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