
DevelBoard HMI datasheet

Processor	Atmel ATSAMA5D26 ARM® Cortex®-A5 core @ 500MHz
Memory	512MByte DDR3L RAM, 512MByte NAND Flash
Peripherals	Graphics Controller/GPU LCD/TFT display controller up to 24bit ISI Camera Interface 1 USB High-speed host/device ports 1 USB High-speed host port 1 ethernet 10/100 MAC ports (with PTP support) 2 SDIO/SD-CARD/eMMC 2 QSPI 7 SPI ports 10 USART, 1 debug serial port 2 SSC 7 I ² C 6 PWM standalone Comparator 12 ADC, 12bit resolution Crypto engine for AES/DES/RSA/ECC/SHA/TRNG Support for resistive touchscreen up to 128 GPIO shared with other peripherals
Power supply	Single 3.3V, 0.5W(typical)
Temperature Range	0°C to +85°C
Board Size	60x70mm
Display	7" With Capacitive Touch: 7.0" TFT 800x480 pixel RGB 24bit, 16,7M of colors Capacitive Touch Backlight White 4.3" With Capacitive Touch: 4.3" TFT, IPS 480x272 pixel RGB 24bit, 16,7M of colors Capacitive Touch, with 5 points of touch Backlight White

DevelBoard HMI datasheet

Additional features

Embedded Audio Subsystem

Ultra-Low Power Consumption for extensive battery life:

- < 200uA retention mode with fast wake-up
- 5uA in backup mode
- New backup mode with DDR self-refresh

State-of-the-Art Security:

- Hardware encryption engine
- Tamper pins and secure key storage
- Secure boot

Extensive Ecosystem:

- Free Linux® and Qt SDK