

Welcome to **E-XFL.COM**

Understanding <u>Embedded - Microcontroller, Microprocessor, FPGA Modules</u>

Embedded - Microcontroller, Microprocessor, and FPGA Modules are fundamental components in modern electronic systems, offering a wide range of functionalities and capabilities. Microcontrollers are compact integrated circuits designed to execute specific control tasks within an embedded system. They typically include a processor, memory, and input/output peripherals on a single chip. Microprocessors, on the other hand, are more powerful processing units used in complex computing tasks, often requiring external memory and peripherals. FPGAs (Field Programmable Gate Arrays) are highly flexible devices that can be configured by the user to perform specific logic functions, making them invaluable in applications requiring customization and adaptability.

Applications of **Embedded - Microcontroller**,

Product StatusObsoleteModule/Board TypeMPU CoreCore ProcessorARM922T, LH7A404Co-Processor-Speed200MHzFlash Size16MBRAM Size64MBConnector TypeSO-DIMM-144Size / Dimension2.37" x 2.67" (60.2mm x 67.8mm)Operating Temperature-40°C ~ 85°CPurchase URLhttps://www.e-xfl.com/product-detail/logic-pd/cenglh7a404-11-403ei	Details	
Core Processor ARM922T, LH7A404 Co-Processor - Speed 200MHz Flash Size 16MB RAM Size 64MB Connector Type SO-DIMM-144 Size / Dimension 2.37" x 2.67" (60.2mm x 67.8mm) Operating Temperature -40°C ~ 85°C	Product Status	Obsolete
Co-Processor - Co-Pro	Module/Board Type	MPU Core
Speed 200MHz Flash Size 16MB RAM Size 64MB Connector Type SO-DIMM-144 Size / Dimension 2.37" x 2.67" (60.2mm x 67.8mm) Operating Temperature -40°C ~ 85°C	Core Processor	ARM922T, LH7A404
Flash Size 16MB RAM Size 64MB Connector Type 50-DIMM-144 Size / Dimension 2.37" x 2.67" (60.2mm x 67.8mm) Operating Temperature -40°C ~ 85°C	Co-Processor	-
RAM Size 64MB Connector Type SO-DIMM-144 Size / Dimension 2.37" x 2.67" (60.2mm x 67.8mm) Operating Temperature -40°C ~ 85°C	Speed	200MHz
Connector Type SO-DIMM-144 Size / Dimension 2.37" x 2.67" (60.2mm x 67.8mm) Operating Temperature -40°C ~ 85°C	Flash Size	16MB
Size / Dimension 2.37" x 2.67" (60.2mm x 67.8mm) Operating Temperature -40°C ~ 85°C	RAM Size	64MB
Operating Temperature -40°C ~ 85°C	Connector Type	SO-DIMM-144
3 - F	Size / Dimension	2.37" x 2.67" (60.2mm x 67.8mm)
Purchase URL https://www.e-xfl.com/product-detail/logic-pd/cenglh7a404-11-403ei	Operating Temperature	-40°C ~ 85°C
1	Purchase URL	https://www.e-xfl.com/product-detail/logic-pd/cenglh7a404-11-403ei

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Developing products

is as simple as

A Application Development Kits

B Board Support Packages

Card Engines

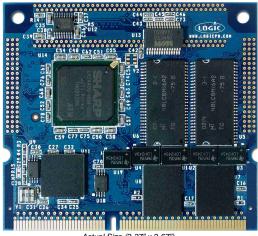
LH7A404 CARD ENGINE

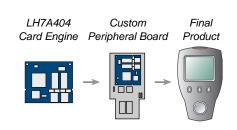


(PRELIMINARY)

The LH7A404 Card Engine is a compact, product-ready hardware and software solution for developing embedded products with **less time**, **less cost**, **less risk** ... **more innovation**.

The LH7A404 Card Engine is a complete embedded computing module offering essential features for handheld and embedded networking applications in the industrial, consumer and medical markets. The use of custom peripheral boards makes the Card Engine the ideal foundation for OEMs developing handheld and compact products. The Card Engine provides a common reference pin-out on its expansion connectors, which enables customers to easily scale to next generation micro controller Card Engines when new functionality or performance is required.





SOFTWARE HIGHLIGHTS

- Ready to run Windows[™] CE or Linux BSPs
- Bootloader/Monitor
- Board Support Packages
- Custom Linux or WindowsTM CE device driver development

CUSTOMER SUPPORT

Logic provides technical support for Card Engines. Various support packages are available; contact us for more information.

SHARP

BLUE TREAK

Powering Tomorrow's Vision

Microsoft®

Windows Powered

- Actual Size (2.37" x 2.67")
- Processor Sharp LH7A404 32 bit ARM922TDMI RISC microprocessor
 - Running up to 200 MHz (0 to 70 Degrees C) with 100 MHz bus speed
 - Running up to 166 MHZ (-40 to 85 Degrees C) with 83 MHz bus speed
- SDRAM Memory 32 or 64 Mbytes on board
- Flash Memory Up to 32 Mbytes on board
- Display Programmable color LCD controller
 - Built in driver supports up to 1024 x 768 x 16 bit color
 - Supports STN, Color STN, HR-TFT, AD-TFT, TFT
- Touch Screen Four or Five wire integrated touch interface
- **Network Support** 10/100 BASE-T Ethernet controller (application/debug)
 - SMSC LAN 91C111 (MAC & PHY)
- Audio Audio Codec AC97 (Wolfson WM9708)
- PC Card Expansion
 - Compact Flash Type 1 card (memory storage only)
 - Dual PCMCIA interface + 1 memory mode CF
- USB USB host and 1 device interface (USB 1.1)
- Serial Ports 3 X 16C550 like, standard UARTS
- IrDA SIR supports up to 115.2 Kbps
- PS2 PS2 Keyboard & Mouse
- **GPIO** Programmable depending on peripheral requirements
- SSP Supports either Motorola SPITM, National Semiconductor MICROWIRETM, TI SSI
- Software
 - Windows™ CE and Linux BSPs available
- LogicLoader[™] (bootloader/monitor)

- Smart Card Interface (ISO7816)

- MMC

- Mechanical
 - Compact Size: 2.37" (60.2 mm) long x 2.67" (67.8 mm) wide x 0.17" (4.4 mm) high
 - 144 pin SODIMM Connector for connection to custom peripheral board
 - Two high density 80-pin expansion connectors for peripheral access
- Application Development Kits
 - Zoom™ Starter Development Kit Zoom™ Integrated Development Kit (Avail. Soon)



APPLICATION DEVELOPMENT KITS

BSPS & SOFTWARE

CARD ENGINES

PRODUCT DEVELOPMENT SERVICES