Welcome to E-XFL.COM

Understanding Embedded - Microcontroller, Microprocessor, FPGA Modules

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,

Details	
Product Status	Obsolete
Module/Board Type	MPU Core
Core Processor	SH7760
Co-Processor	-
Speed	198MHz
Flash Size	32MB
RAM Size	64MB
Connector Type	SO-DIMM-144
Size / Dimension	2.37" x 2.67" (60.2mm x 67.8mm)
Operating Temperature	0°C ~ 70°C
Purchase URL	https://www.e-xfl.com/product-detail/logic-pd/cengsh7760-10-503hc

SH7760 CARD ENGINE

CARD ENGINE ADVANTAGE

- Reduce TIme to Market
  → 6 to 9 month savings
- Product-Ready Hardware Platform
- Production Quality Software
- Engineering Support

The SH7760 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 SH7760 Card Engine is a complete System on Module offering essential features for handheld and embedded networking applications in the industrial, consumer, and medical markets. The use of custom base 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 microcontroller Card Engines when new funtionality or performance is required.

PRODUCT HIGHLIGHTS

- Ready to run Windows® CE BSP
- Bootloader/Monitor
- Custom Windows CE device driver development

SH7760 Card Engine → Custom Baseboard → Final Product

Actual Size (2.37" x 2.67")

ORDERING INFORMATION

- Zoom™ Starter Development Kit (Model # SDK-SH7760-10-6416)

CUSTOMER SUPPORT

Logic provides technical support for Application Development Kits. Various support packages are available; contact us for more information.
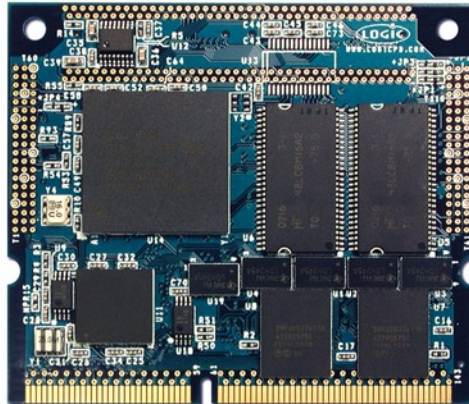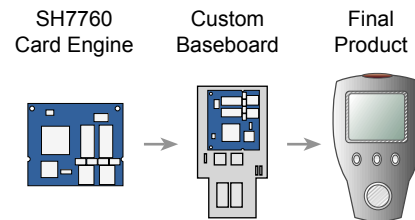
- **Processor** Renesas SH7760 32 bit SH-4 RISC microprocessor running at 198 MHz
- **SDRAM Memory** Up to 64 Mbytes
- **Flash Memory** Up to 32 Mbytes on board
- **Display** Programmable color LCD controller
    - Built in driver supports up to 640 x 480 x 8 bit color
    - Supports STN, Color STN, TFT, DSTN
- **Touch Screen** Four wire resistive touch controller (ADS7843)
- **Network Support** 10/100 BASE-T Ethernet controller (application/debug)
    - SMSC LAN 91C111 (MAC & PHY)
- **Audio** Audio Codec AC97 (Wolfson WM9708)
- **I2C**
- **PC Card Expansion**
    - CompactFlash Type 1 card (memory mode only)   - PCMCIA of CF (2 slots)
- **USB** One USB 1.1 Host
- **Serial Ports** 3 X 16C550 like, standard UARTS
- **Timers/Counters** Four Channels
- **A/D** Six Channels
- **CAN** Two Channels Ver. 2.0
- **GPIO** Programmable depending on peripheral requirements
- **SPI** Supports Motorola SPI
- **Software**
    - Windows™ CE BSP available
    - LogicLoader™ (bootloader/monitor)
- **Mechanical**
    - Compact Size: 2.37" (60.2 mm) long x 2.67" (67.8 mm) wide x 0.19" (4.9 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 (Model # SDK-SH7760-10-6416)

CONTACT

For more information on our Embedded Product Solutions, please contact Logic Sales at www.logicpd.com or 612.672.9495.

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