



# LH79520 CARD ENGINE

A B C

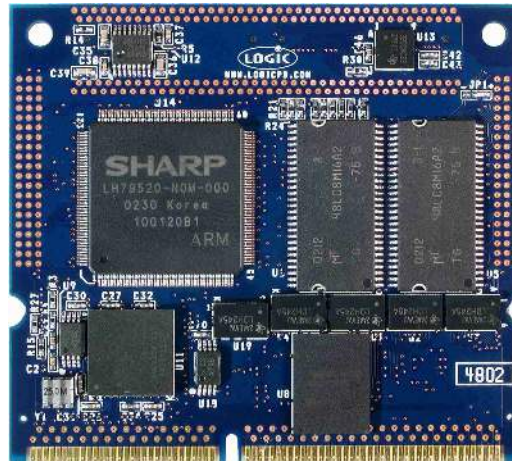
*Developing  
embedded solutions  
is as simple as*

A B C

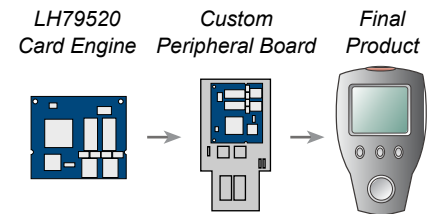
- A Application Development Kits
- B Board Support Packages
- C Card Engines

The LH79520 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 LH79520 Card Engine is a complete single board computer 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 microcontroller Card Engines when new functionality or performance is required.



Actual Size (2.37" x 2.67")



## SOFTWARE HIGHLIGHTS

- Ready to run Linux
- Bootloader/Monitor
- Board Support Packages
- Custom Linux device driver development services available
- Supports other operating systems

- **Processor** Sharp LH79520 32 bit ARM720T RISC processor running up to 77.414 MHz
- **SDRAM Memory** Up to 64 Mbytes
- **Flash Memory** Up to 16 Mbytes on board
- **Display** Programmable color LCD controller
  - Built in driver supports up to 800 x 600 x 16 bit color
  - Supports STN, Color STN, HR-TFT, AD-TFT, TFT
- **Touch Screen** Four wire resistive touch controller
- **Network Support** 10/100 BASE-T Ethernet controller (application/debug)
  - SMSC LAN 91C111 (MAC & PHY)
- **Audio** Audio Codec Stereo Output (TI TLV320DAC23)
- **PC Card Expansion** Compact Flash Type 1 card (memory mode only)
- **Serial Ports** 2 X 16C550 like, standard UARTS
- **IrDA** SIR supports up to 115.2 Kbps
- **GPIO** Programmable depending on peripheral requirements
- **SSP** Supports either Motorola SPI™, National Semiconductor MICROWIRE™, TI SSI
- **Software**
  - Linux BSP available Q1 '03
  - LogicLoader™ (bootloader/monitor)
- **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 - available Q2 '03

STRATEGIC PARTNER

**SHARP**

**BLUE TREK**  
Powering Tomorrow's Vision