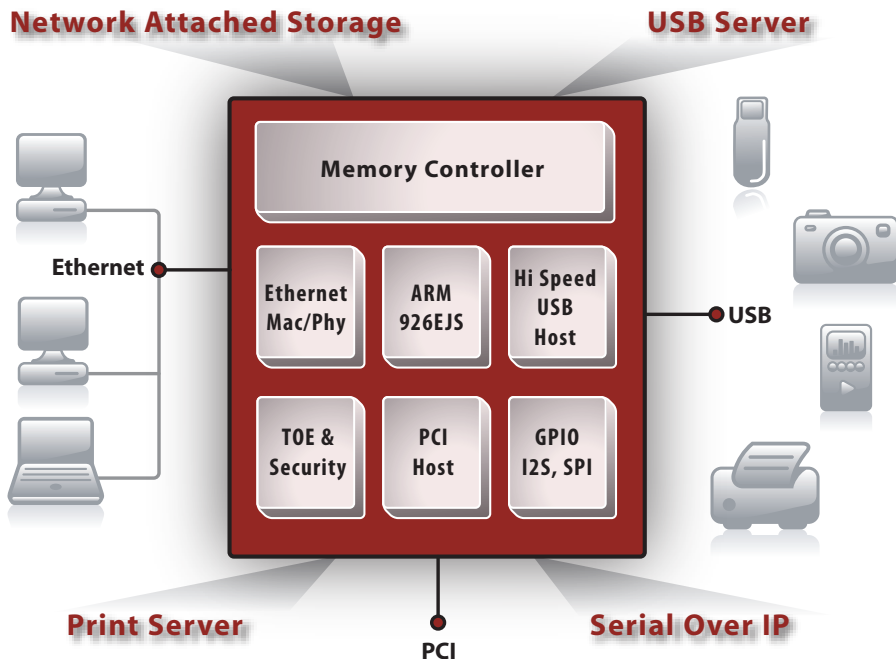


Network USB Processor For Digital Home

PRODUCTION-READY SOLUTIONS TO ACCELERATE TIME TO MARKET

MCS8140 - NETWORK USB PROCESSOR

- > ARM 9 CPU with MMU
- > Ethernet Mac/Phy
- > High Speed 4-port USB Hub
- > PCI Host Controller



APPLICATIONS

- > **USB Server:** The MCS8140 can be used to make a networked USB Device Server. Now, any USB device connected to the MCS8140 can be accessed by any computer connected to the Local Network.
- > **Printer Server:** MCS8140 can be used in printer sharing devices for the home and small office. Multiple printers connected via the USB interface of the MCS8140 can be shared over the network.
- > **Network Attached Storage (NAS):** MCS8140 can be used to connect storage devices such as Flash Drives and Hard Disk Drive to the Local Network. The storage device can be connected via the USB ports or through the PCI bus, using a SATA/IDE controller.
- > **Serial over IP:** MCS8140 and a companion MosChip product MCS7840, USB to 4-Serial controller, can be used to offer 4-16 Serial communication ports over the Network. Such products can be used in industrial control and network management systems.



ARM926EJS CPU with MMU

- > 32-bit, 170 MHz operation
- > 16K Instruction & Data Cache

Ethernet

- > 10/100Mbps Ethernet MAC
- > Integrated 10/100 Ethernet PHY

USB Host

- > Four High-Speed USB ports
- > One EHCI/ Two OHCI controller
- > Bulk, Interrupt and Isochronous transfers

PCI Host

- > 32-bit, 33MHz operation
- > Supports two PCI devices

Memory Controller

- > 32MB, 16/32-bit SDRAM interface
- > 8MB, 8-bit Parallel Flash Interface
- > 8-bit Local bus

TCP/IP Offload Engine (TOE)

- > TCP / IP Checksum offload
- > Large send offload
- > List processing

I2S

- > Audio interface

GPIO

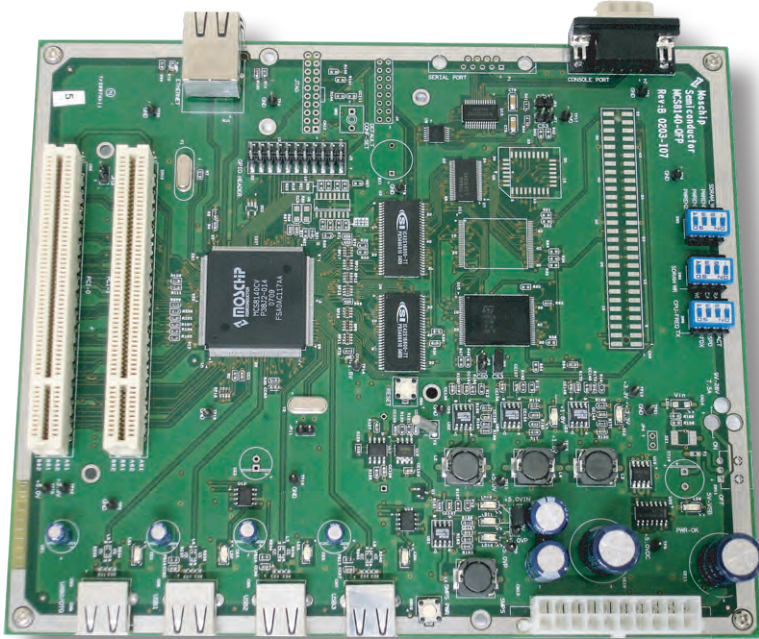
- > 20 interrupt capable programmable

Software

- > Embedded Linux kernel
- > USB over IP module
- > Web Server

Network USB Processor For Digital Home

Development Platform: MCS8140CV-EVB



Hardware

- 4 High-speed USB ports
- RJ-45 Ethernet Port
- 32MB SDRAM
- 2 32-bit, 33MHz PCI slots, 5V
- Serial Console port
- JTAG Header for ARM debug
- 20-bit GPIO Header
- ATX Power Connector

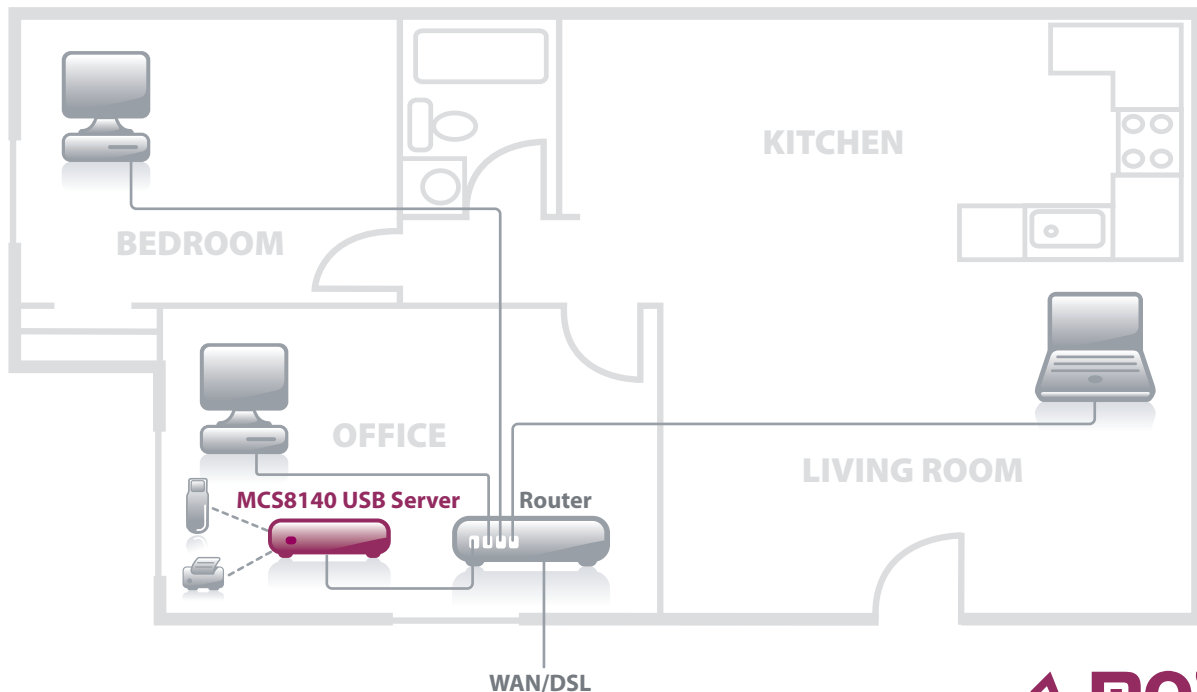
Documentation

- Linux Kernel
- Web Server
- Client Application

Software

- User Manual
- Quick Start Guide

USB Server Application



Order your IC samples and Evaluation Boards Today!



MosChip Semiconductor
3335 Kifer Road
Santa Clara, CA 95051, USA