

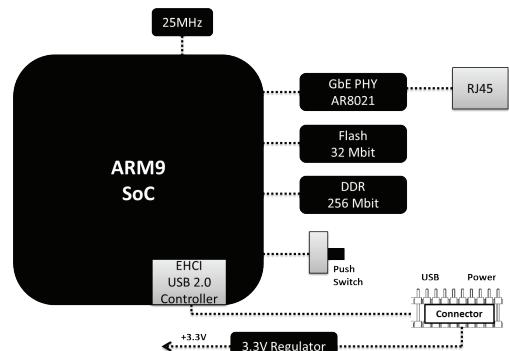
SX-3000EDM

Gigabit USB Embedded Device Module



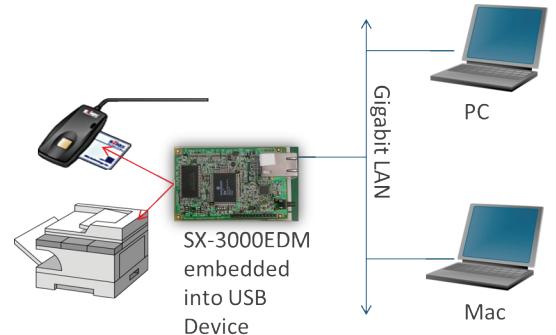
Network USB Solution for Embedded Applications

The SX-3000EDM is a compact self-contained embedded Network USB device module with Ethernet and USB interfaces on board. Designed for USB device OEMs who want to cost effectively add network connectivity to their existing USB product with nominal changes to the existing design, SX-3000EDM makes standard USB devices accessible from a Windows or Macintosh computers through gigabit network interface. The target USB applications include scanners, printers/MFPs, digital TV tuners, disk drives and disk drive enclosures, security and ID readers and encoders, and many more.



Features

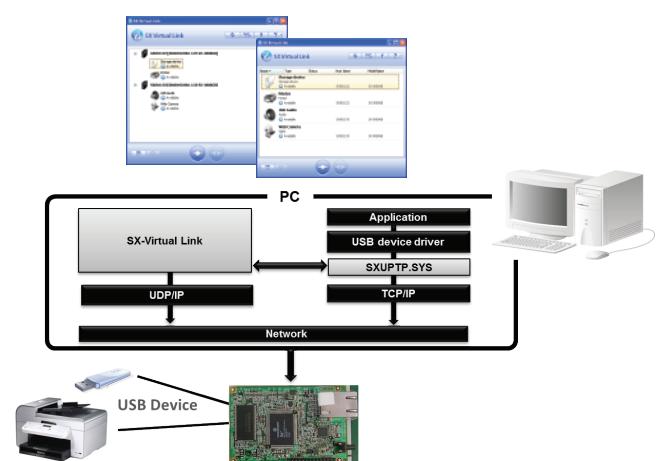
- 250MHz ARM9 based SoC
- 256Mbit DDR memory
- 32Mbit Flash memory
- On board Gigabit PHY
- High Speed USB Host Controller 480Mbps
- Built in RJ45 connector with gigabit Ethernet support
- Single 3.3v power operation
- Complete Silex proprietary embedded OS
- A tact switch that can be programmed for reset, trigger, GPIO
- Works with Windows XP and up or Mac OS X 10.4 and up



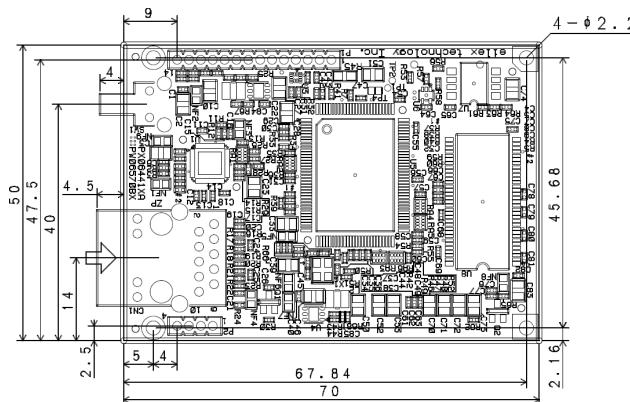
Silex SX-Virtual Link USB Networking Software

Silex has created software for Windows and Macintosh computers called SX-Virtual Link which precisely emulates a USB port on each of the computers that want to access the USB device over the network. The computers think that they are communicating with the device via a direct USB connection, but they are actually communicating over the network to the USB device connected to the SX-3000EDM.

Silex also offers the SX-Virtual Link SDK for Windows or Macintosh, which allows you to design your own custom utility for connection to the USB device over the network.



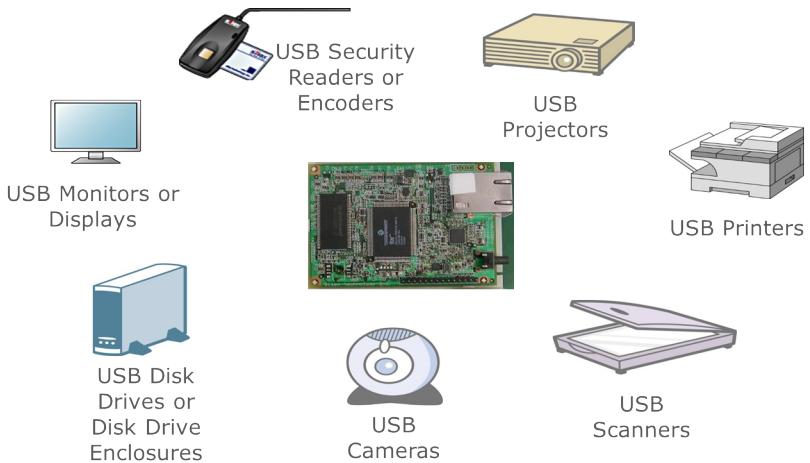
OEM Module Diagram



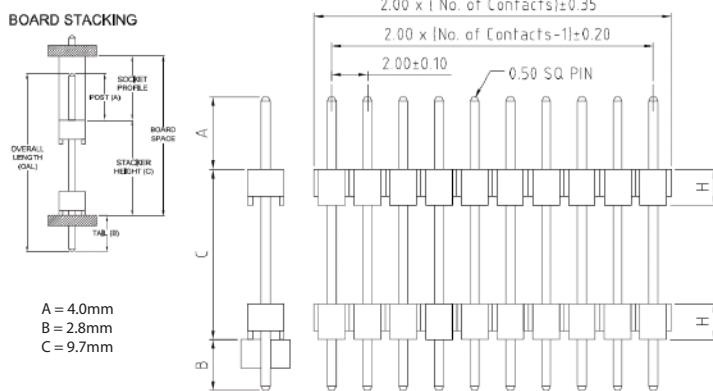
Dimension: 70 mm x 50 mm x 5 mm (W x D x H)

Dimension with connectors: 74 mm x 50 mm x 14 mm (W x D x H)

Product Application Examples



Pin Drawing



Header Pin-out

Pin	Signal name	Direction	Level	Description
1	+3.3V	-	Power	+3.3V supply source (Max: 900mA)
2	USB.DP0	I/O	USB	Host USB connector 0 signal positive
3	USB.DN0	I/O	USB	Host USB connector 0 signal negative
4	GND	-	Power	
5	N.C.	-	-	
6	N.C.	-	-	
7	GND	-	Power	-
8	USB.DN1	I/O	USB	Host USB connector 1 signal negative
9	USB.DP1	I/O	USB	Host USB connector 1 signal positive
10	GND	-	Power	-
11	GPIOA30	I/O	TTL	General purpose I/O
12	GPIOA3	I/O	TTL	General purpose I/O
13	GPIOA29	I/O	TTL	General purpose I/O
14	GPIOA31	I/O	TTL	General purpose I/O

Evaluation Ordering Information

To test the software functionality and provide an immediate proof of concept, Silex offers the SX-3000GB product, which has similar functionality in an external box USB Device Server form factor.

SX-3000EDM-SP Single Pack SX-3000EDM

SX-3000EDM 50 Pack SX-3000EDM

Silex provides various hardware design and manufacturing services. Please contact us today for further information / engineering consultation.

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