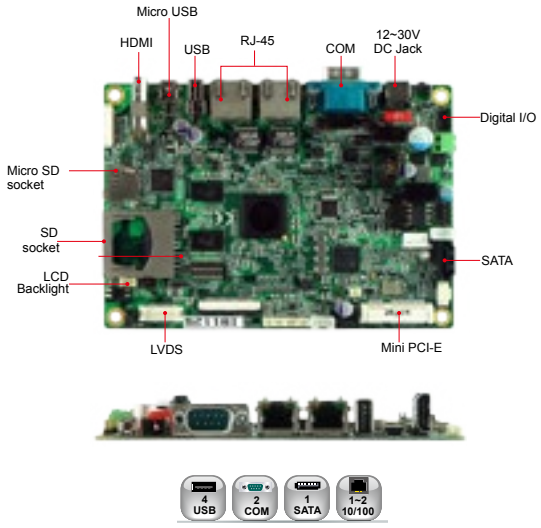
IB112

Freescale i.MX536 Industrial-Grade Cortex-A8 Single Board Computer

RISC SBC



NEW

Features

- Freescale ARM Cortex-A8, 800MHz industrial-grade processor
- 1GB DDR3 memory on board
- Supports USB-OTG
- Supports SD card/ MicroSD card
- Rich I/O for high expansion capability
- Watchdog timer, Digital I/O

Specifications

Form Factor	3.5" Disk-Size SBC, 102mm x 147mm (4" x 5.8")
MPU Type Operating Frequency	Freescale Industrial-Grade i.MX536: 1GHz Cortex™-A8 65nm, LP/GP 19x19 0.8mm (TE-BGA)
System Memory	1GB DDR3-800 on board
Data Memory	Optional 8GB/16 GB eMMC MicroSD slot supports up to 32GB
Display	SiI9022A HDMI transmitter / LVDS
Video codec	Decode: 1080p, 30fps Encode: 720p, 30fps
LAN	1st LAN : 10/100 Base-T Ethernet 2nd LAN : 10/100 Base-T Ethernet (IB112S)
USB	USB 4x Host via USB HUB
Touch Controller	Via DA9053 (Resistive Touch Controller)
Audio	Pin header for speaker
Watchdog	By hardware
NVRAM	32KB (in IB112F, IB112S)
Edge I/O	• 1x 1st 10/100 LAN / 1x 2nd 10/100 LAN (IB112S) • 1x USB (USB Host, A-Type) / USB OTG x1 (mini USB B-Type) Default: Device mode • 1x COM2 RS-232 • 1x SD / 1x MicroSD • 1x 12~30V DC-in jack • 1x Boot switch (Boot sequence - eMMC/MicroSD) • 1x HDMI Type A connector
Headers & Expansion Slots	Headers: • 8x GPIO (IB112F, IB112S) • COM (RS232) x 2 (COM1 / COM3 debug port) • Audio pin header (1x MIC, 1x speaker) • 2x USB 2.0 (2mm pitch) • FPC connector for 4-wire Resistive Touch x1 • 2x CAN (Pin header in IB112S, IB112T) • 1x 18 bit LVDS connector • 1x VGA pin header (in IB112F, IB112S) Slots: • 1x SATA connector • 1x Full Size Mini PCIe(x1) socket (USB I/F only)
Power	12~30V DC-in
Operating Temperature	-20°C~ 70°C (-4°F ~ 158°F)
Communication Devices	WiFi / GPRS / 3G Module (Optional)
Software Support	Ubuntu Linux 10.04 (kernel 2.6.35)/ Android 2.3/ Windows CE7

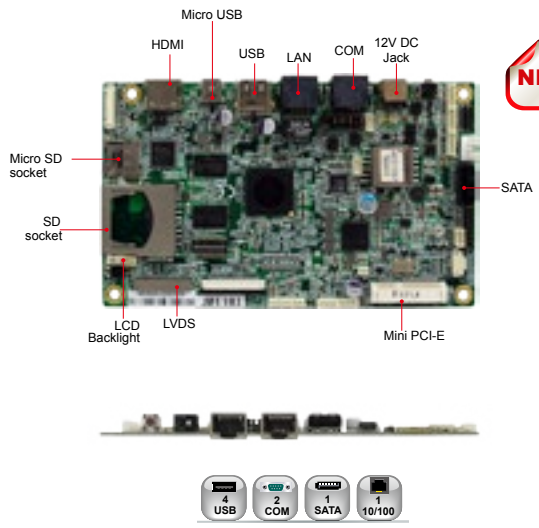
Ordering Information

IB112	3.5-inch SBC w/ Industrial-Grade Freescale i.MX536 (800Mhz), 1GB DDR3, 10/100 LAN, SD, Micro-SD, 3 COM ports, Mini-PCIe(x1) slot
IB112F	3.5-inch SBC w/ Industrial-Grade Freescale i.MX536 (800Mhz), 1GB DDR3, 10/100 LAN, SD, Micro-SD, 3 COM ports, Mini-PCIe(x1) slot, HDMI,GPIO x8, VGA, 32K NVRAM, SATA
IB112S	3.5-inch SBC w/ Industrial-Grade Freescale i.MX536 (800Mhz), 1GB DDR3, 10/100 LAN, SD, Micro-SD, 3 COM ports, Mini-PCIe(x1) slot, HDMI, GPIO x8, CAN x2, 2nd LAN, 32K NVRAM, 16GB eMMC
IB112T	3.5-inch SBC w/ Industrial-Grade Freescale i.MX536 (800Mhz), 1GB DDR3, 10/100 LAN, SD, Micro-SD, 3 COM ports, Mini-PCIe(x1) slot, HDMI, CAN x2, 8GB eMMC

IB110

Freescale i.MX535 Consumer-Grade Cortex-A8 Single Board Computer

RISC SBC



NEW

Features

- Freescale ARM Cortex-A8, 1GHz consumer-grade processor
- 1GB DDR3 memory on board
- Supports USB-OTG
- Supports SD card/ MicroSD card
- Rich I/O for high expansion capability
- Watchdog timer, Digital I/O

Specifications

Form Factor	90mm x 150mm (3.5" x 5.9")
MPU Type Operating Frequency	Freescale Consumer-Grade i.MX535 1GHz Cortex™-A8 65nm, LP/GP 19x19 0.8mm PoP (Consumer)
System Memory	1GB DDR3-800 on board
Data Memory	MicroSD slot supports up to 32GB
Display	SiI9022A HDMI Transmitter / LVDS / TTL
Video codec	Decode :1080p, 30fps Encode : 720p, 30fps
LAN	10/100 Base-T Ethernet
USB	USB 4x Host via USB hub
Touch Controller	Via DA9053 (Resistive Touch Controller)
Audio	Pin header for speaker
Watchdog	By hardware
Edge I/O	• 1x 10/100 LAN (RJ45) • 1x USB (USB host, A-Type) • 1x USB OTG (mini USB B-Type) Default: device mode • 1x COM2 RS-232(RJ45 connector) • 1x SD • 1x MicroSD • 1x 12V DC-in jack • 1x Boot switch (Boot sequence: eMMC/MicroSD) • 1x HDMI Type A connector
Headers & Expansion Slots	Headers: • 8x GPIO (IB110H, IB110F) • 2x COM (RS232) (COM1 / COM3 debug port) • Audio pin header (1x speaker) • 2x USB 2.0 (2.0mm pitch) • 1x FPC connector for 4-wire Resistive Touch • VGA, 18-bit TTL panel and LVDS header (IB110F) Slots: • 1x SATA connector (IB110F) • 1x Full Size Mini PCIe(x1) socket (USB I/F only)
Power	12V DC-in
Operating Temperature	0°C~ 60°C (32°F ~ 140°F)
Communication Devices	WiFi / GPRS / 3G module (optional)
Software Support	Ubuntu Linux 10.04 (kernel 2.6.35)/ Android 2.3/ Windows CE7

Ordering Information

IB110	RISC SBC w/ Consumer-Grade Freescale i.MX535 (1Ghz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3 COM ports, Mini-PCIe(x1) slot
IB110F	RISC SBC w/ Consumer-Grade Freescale i.MX535 (1Ghz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3 COM Ports, Mini-PCIe(x1) slot, HDMI, GPIO x8, SATA, VGA. 18-bit TTL Panel header, LVDS header
IB110H	RISC SBC w/ Consumer-Grade Freescale i.MX535 (1Ghz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3 COM ports, Mini-PCIe(x1) slot, HDMI,GPIO x8, 8GB eMMC (option)