



Si14 - Embedded Solutions



Megrez

Overview

Megrez is an interchangeable Intel Atom & EP80579 integrated processor development board providing maximum flexibility and a wide range of interfaces.

Key benefits

- Supports both Intel® Atom™ & EP80579 Integrated Processor
- Zero effort Windows & Linux evaluation
- No JTAG needed
- Micro-ATX form factor (229X191 mm)
- Maximum interface and connectivity
- Included design guides minimizing the development time of custom interfaces
- Available customer training and hardware design service for custom application

Specifications

Platform supported	Intel Atom Mirach module and Intel EP80579 Mizar module - I/O available with Intel Atom Mirach module
PCI express	One PCI express 8x slot
USB	2 USB 2.0 Hi-Speed (480 Mbps)
Ethernet	3 Ethernet 10/100/1000 Mbps
Serial Port	2 RS232 Serial port with DB-9 connector
SATA interface	2 Serial ATA with independent DMA with transfer rate up to 3 Gb/s
CAN Bus	Two Controller Area Network interfaces fully 2.0B compliant on pin strip
Local Expansion Bus	LEB bus 25/16-bit 33/80 MHz Local Expansion Bus with 8 programmable chip selects
Smbus	Two independent SMBus 2.0

IEEE 1588	IEEE 1588-2008 Hardware Assist interface on
GPIO	20 GPIO
TDM	Support up to 12 T1/E1 links
SSP	Synchronous Serial Port (SPI compatible) for TDM Configuration
Power supply	12V +/- 5%
Power consumption	Depends on the mounted modules
Temperature	Operation: 0° to 60°C - Storage: -10° to +85°C - Extended range (-40° to +85°) available on 1.066 Ghz version
Humidity:	Operation: 10% to 90% - Storage: 5% to 95%
Dimensions (H x W x D)	Flex-ATX form factor (229.0 mm x 191.0 mm x 43.0 mm)
Weight	310 gr