PQ7- M106IL

Qseven module by Qseven 2.0 based on Intel® Atom™ E3800 series platform with DDR3L SDRAM, 24bit LVDS, DP, SDIO, and USB3.0

Powrtwell's PQ7-M106IL is designed with Intel® new Atom™ generation E3800 series processor. PQ7-M106IL features low power consumption than previous Atom platform, and 2GB to 8GB memory support.
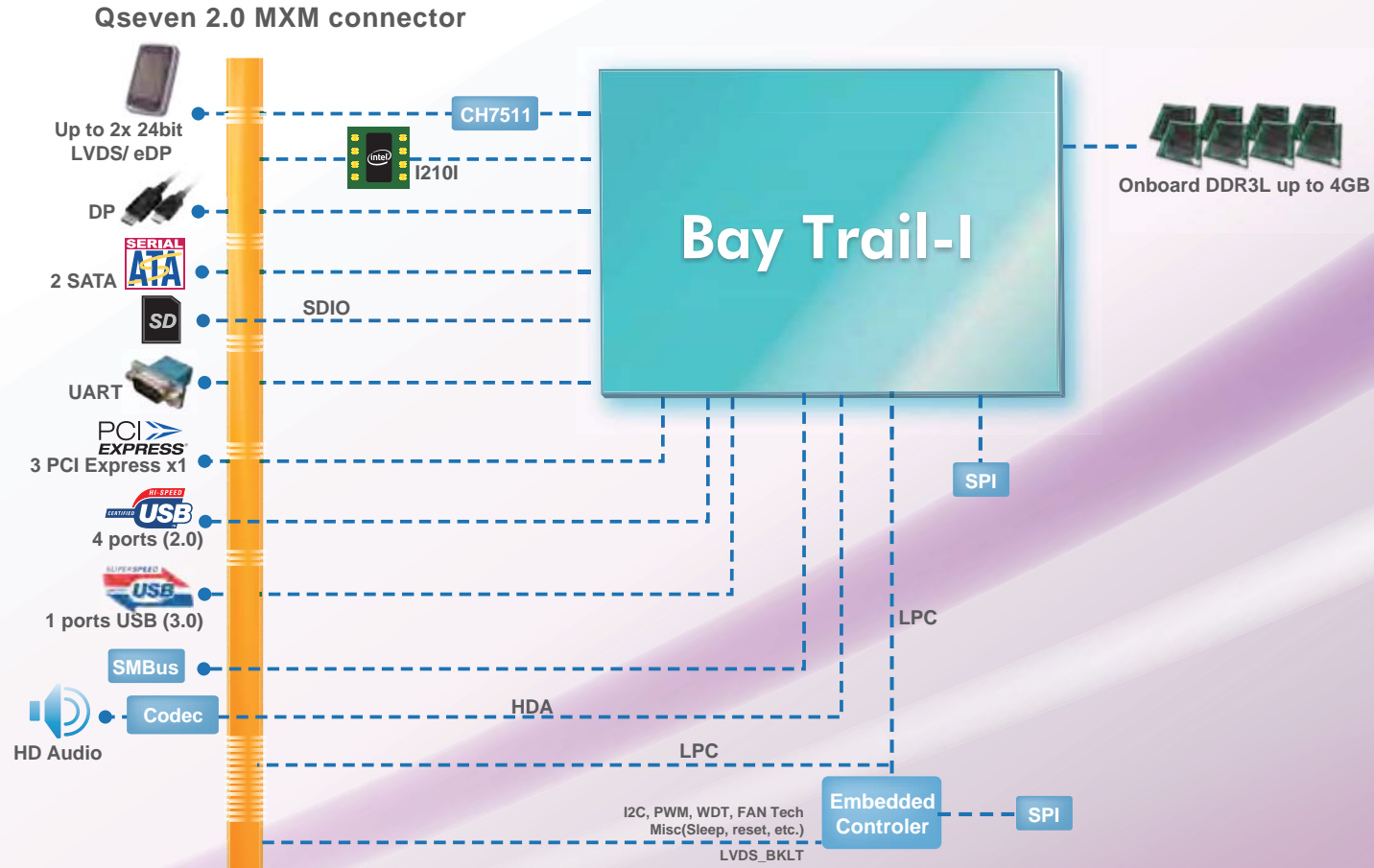
-40°C to 80°C resistance relies on qualified industrial-grade components. PCI Express interface can support expansion devices, such as GPS/ GPRS/ Wireless/ Bluetooth/Graphic, etc.; also SDIO signal assists extra storage requirement. USB3.0 is new support different from previous Qseven design as more and more customers requires faster data transfer. PQ7-M106IL is the exact solution for various automation or equipment application.

FEATURES

- Atom™ Bay Trail SoC E3800 series processor with industrial support.
- On Board DDR3L DRAM and up to 4GB.
- Three PCI Express lanes (optional to Four)
- Support one USB 3.0, four USB 2.0

ORDERING GUIDE

AB1-3A80Z	PQ7-M106IL-E3845-4G(industrial) with MOQ
AB1-XXXXZ	PQ7-M106IL-E3845-2G(industrial)
AB1-XXXXZ	PQ7-M106IL-E3827-2G(industrial)
AB1-XXXXZ	PQ7-M106IL-E3825-2G(industrial) with MOQ
AB1-XXXXZ	PQ7-M106IL-E3815-2G(industrial)
AB1-XXXXZ	PQ7-M106IL-N2930-8G(commercial) with MOQ
AB1-XXXXZ	PQ7-M106IL-N2807-8G(commercial) with MOQ

Qseven 2.0 MXM connector

Up to 2x 24bit LVDS/ eDP

CH7511

I210I

DP

2 SATA

SDIO

SD

UART

PCI EXPRESS
3 PCI Express x1

HI-SPEED CERTIFIED USB
4 ports (2.0)

SUPERSPEED USB
1 ports USB (3.0)

SMBus

Codec

HD Audio

Bay Trail-I

Onboard DDR3L up to 4GB

SPI

LPC

HDA

LPC

I2C, PWM, WDT, FAN Tech
Misc(Sleep, reset, etc.)

Embedded Controler

SPI

LVDS_BKLT

Processor Core

◆ Atom™ Bay Trail (SoC) with QC, DC, & Uni core SKUs

◆ 512KB~2MB Shared Last Level Cache

◆ SMT: 1 threads/core

Highlights

◆ Intergrated Memory Controller: 1 Channels of Native DDR3L support

◆ Intergrated Native PCI Express, option to 4

◆ USB 3.0 x1

◆ eDP to LVDS support

◆ EC design for flexible control

Memory

◆ DDR3L 1066/1333 MT/s

◆ Up to 8GB

◆ 1 Memory Channel

Platform Thermal Design Power

	E3845	E3827	E3815
	10W	8W	5W
Watt	10W	8W	5W