

PQ7-M106IE



Transportation application demands to traffic control, transportation monitoring and transport information system are operated in vibration and high temperature environment which require wide-temperature and solder components support.



Intel® Atom™ Based Qseven 2.0 module board with memory-down, Dual DP, SATA, PCIE, Gigabit Ethernet and eMMC

Portwell PQ7-M106IE series are designed with Intel Atom™ E3800 series and excellent power-design for critical environment for stable operation. Lower power consumption and high performance are parallel features better than the last Atom™ generation.



PQ7-M106IE is designed with qualified components for wide-temp support. Hence industrial-grade eMMC storage is adopted to keep system working in -40°C~85°C. In addition, through USB Hub, USB2.0 can be expanded as 6 ports. For Transportation or Outdoor application, PQ7-M106IE will be appropriate solution to meet customer's requirement.

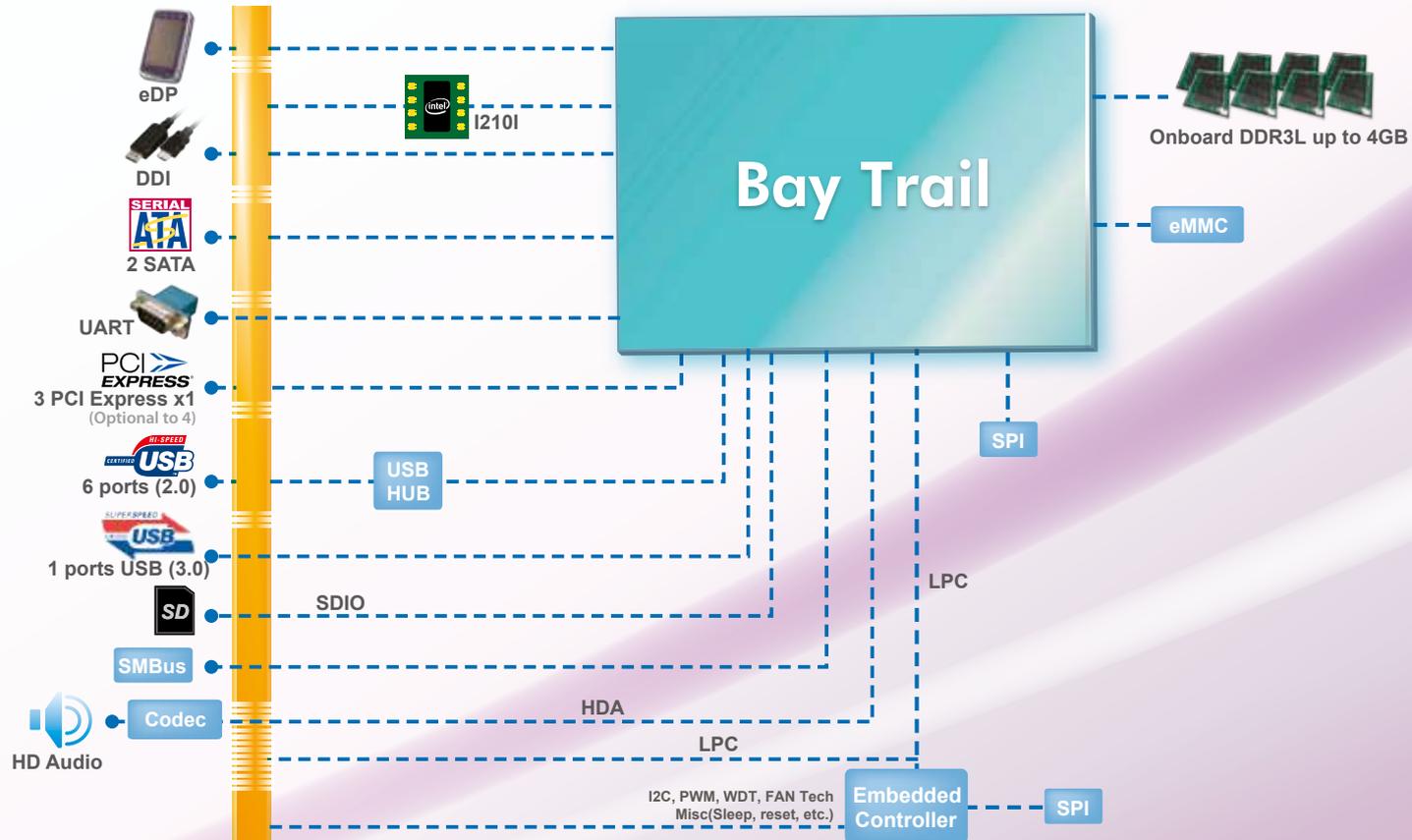
FEATURES

- Support Intel® Atom™ E3800 Series
- Onboard DDR3L memory-down, up to 4GB
- Onboard eMMC driver, up to 32GB
- Support Dual DP interface
- Support Smart Battery feature

ORDERING GUIDE

AB1-3B10	PQ7-M106IE-E3845-4G (industrial)
AB1-3B56	PQ7-M106IE-E3845-2G (industrial)
AB1-3B22	PQ7-M106IE-E387-2G (industrial)
AB1-3B55	PQ7-M106IE-E3825-2G (industrial)
AB1-3B21	PQ7-M106IE-E3815-2G (industrial)

Qseven 2.0 MXM connector



Processor Core

- ◆ Atom™ Bay Trail (SoC) with QC, DC, & Uni core SKUs
- ◆ 512KB~2MB Shared Last Level Cache
- ◆ SMT: 1 threads/core

Highlights

- ◆ Support wide-temp eMMC driver, up to 32GB
- ◆ Support Dual DP interface which can be configured DVI/HDMI

Memory

- ◆ DDR3L 1066/1333 MT/s
- ◆ Up to 4GB
- ◆ 1 Memory Channel

Platform Thermal Design Power

CPU	E3845	E3827	E3815
Watt	10W	8W	5W