

LEC-BTS

SMARC® Short Size Module with Intel® Atom™ Processor E3800 Series System-on-Chip

Features

- Single, dual or quad-core Intel[®] Atom[™] Processor E3800 Series System-on-Chip
- Up to 4 GB DDR3L at 1066/1333 MHz (non-ECC)
- HDMI and LVDS
- GbE, camera interface
- 1x SATA 3Gb/s, 1x USB 3.0, 3x USB 2.0, max. 12x GPIO
- Extreme Rugged™ operating temperature: -40°C to 85°C



Specifications

Core System

CPU

Intel® Atom ™ E3800 Series, single, dual or quad-core SoC with integrated graphics Atom™ E3845 (4C/1333), 1.91 GHz, Gfx 542/792 MHz (Turbo), 10 W TDP Atom™ E3826 (2C/1066), 1.46 GHz, Gfx 533/667 MHz (Turbo), 7 W TDP Atom™ E3815 (1C/1066), 1.46 GHz, Gfx 400/-MHz, 5 W TDP

Метогу

Up to 4 GB DDR3L at 1066/1333 MHz, memory down non-ECC

Embedded BIOS

AMI UEFI with CMOS backup in 8 MB SPI BIOS, Fast Boot support

Cache

512 kB to 2 MB L2 cache

SEMA Board Controller

Supports: Voltage/Current monitoring, Power Sequencing, Logistics and Forensic Information, Flat Panel Control, I²C Bus Control, GPIO Control, User Flash, Failsafe BIOS (dual BIOS), Watchdog Timer and Fan Control

Audio

Chipset

Intel® HD Audio integrated in SoC

Ports

1x I2S and 1x HDA for audio codec on carrier

Ethernet

Intel® MAC/PHY

1x Intel® i210-IT Ethernet controller

Interface

10/100/1000 GbE

I/O Interfaces

PCle

3x PCle x1 Gen2

USB

1x USB 3.0 + 3x USB 2.0

SATA

1x SATA 3 Gb/s

SDIO

1x SDIO (4-bit)

Camera

CSI 4L/1L

Serial

2x SPI, 2x I2C, 1x I2S, Power Management, 2x UART

MMC

1x MMC interface to carrier

GPIC

12x GPIO, 5x used for camera, 7x available

Video

GPU Feature Support

7th generation Intel[®] graphics core architecture with four execution units, supports two independent displays 2D and 3D graphics hardware acceleration Support for DirectX 11.1, OGLES 2.0, OGL 3.2

Video decode HW acceleration for H.264, MPEG2, VC1, VP8 formats Video encode HW acceleration for H.264, MPEG2 formats

LVDS

Single channel 18/24-bit LVDS from DDI0

HDMI/DP++

HDMI 1.4a from DDI1

Power

Standard Input

3.0 V~5.25 V DC ±5%

Power States

C0-C6, S0, S3, S4, S5

• Mechanical and Environmental

Form Factor

SMARC Specifications v1.1

Dimension

SMARC full size module, 82 mm x 80 mm

Operating Temperature

Standard: 0°C to +60°C

Extreme Rugged: -40°C to +85°C

Humidity

5-90% RH operating, non-condensing

5-95% RH storage (and operating with conformal coating)

HALT

Thermal Stress, Vibration Stress, Thermal Shock and Combined Test

• Operation System

Standard Support

Linux, VxWorks, Windows 7/8, indows Embedded, Compact 7

Extended Support (BSP)

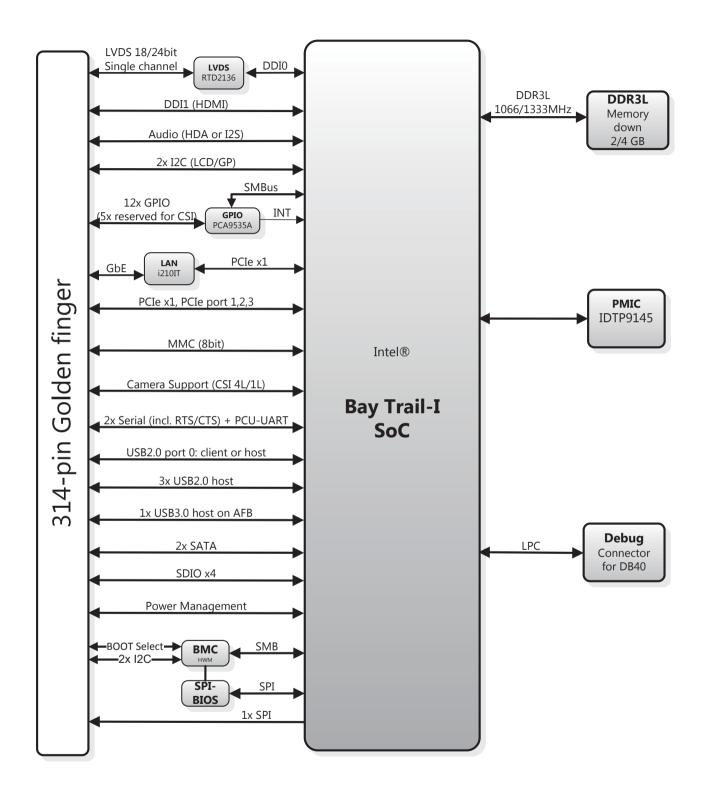
QNX, Android

• Intelligent Middleware SEMA®



Local management, control of embedded computer systems Extended EAPI for monitoring, controlling and analytics applications Multiple OS support and across platforms (x86, ARM)

Functional Diagram



Ordering Information

• LEC-BTS4-2G-ER

SMARC Short Size Module with Intel Atom™ E3845, quad core, 2 GB DDR3L, -40°C to +85°C

• LEC-BTS2-2G-ER

SMARC Short Size Module with Intel® Atom™ E3826, dual core, 2 GB DDR3L, -40°C to +85°C

• LEC-BTS1-2G-ER

SMARC Short Size Module with Intel Atom™ E3815, single core, 2 GB DDR3L, -40°C to +85°C

• LEC-BTS4-4G-ER

SMARC Short Size Module with Intel Atom E3845, quad core, 4 GB DDR3L, -45°C to 85°C

• LEC-BTS20-2G-ER

SMARC Short Size Module with Intel Atom E3805, dual core, headless, 2 GB DDR3L, -45°C to 85°C

• LEC-BTS21-2G-CT

SMARC Short Size Module with Intel Celeron N2807, dual core, 2 GB DDR3L, 0°C to 60°C

• LEC-BTS-HS

Heatspreader for LEC-BTS

*other configurations by request



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