PRELIMINARY DATA SHEET

With ultra low power consumption, the COMX-315 is ideal for portable and hand held applications

- COM Express® Type 2 compatible module
- 1.0 GHz Intel[®] Atom[™] processor E640
- Intel[®] Platform Controller Hub EG20T
- Compact size (95 mm x 95 mm)
- XDP debug header

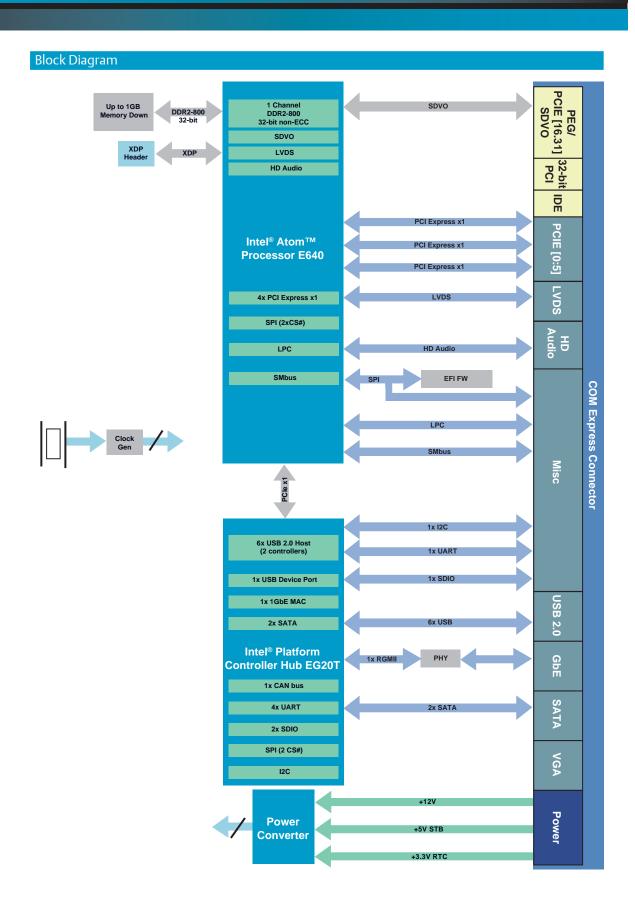
The Emerson Network Power COMX-315 is a Compact COM Express® module based on the Intel® Atom™ processor E640 for deeply embedded, low power applications. At 95 mm x 95 mm, compact format COM Express modules are designed to integrate all the core components of a common PC in a form factor small enough for specific embedded applications on a carrier board. COMX-315 includes graphics, sound, storage, network and multiple USB ports. The COMX-315 will be Type 2 compatible to fit on existing Type 2 carriers, but will not include the legacy PCIbus and IDE parallel interfaces.

Based on the Intel Atom processor E640, the COMX-315 module is a highly reliable and long lifecycle product with ultra low power consumption, making it ideal for portable and hand held applications that do not require forced-air cooling. Typical applications for COMX-315 include portable test equipment, handheld devices and mobile based applications.









Hardware Specifications

PROCESSOR

• Intel® Atom™ processor E640 @ 1.0 GHz

MEMORY

1GB soldered-down memory

SLOT I/O

- Three (3) PCI Express x1
- 1x Gigabit Ethernet, 2x SATA
- LPC and SPI
- HD Audio
- LVDS and SDVO graphics
- 6x USB 2.0
- SDIO
- RS-232 serial

MODULE FORMAT

- COM Express
- Compact format 95 mm x 95 mm
- Type 2 (PCIbus and IDE not enabled)

CONNECTIVITY THROUGH COM EXPRESS CONNECTORS

- LVDS
- SDVO
- 3x PCI Express x 1
- HD audio
- LPC SPI
- SDIO (for carrier mounted memory card)

Software and Firmware Specifications

BIOS

 UEFI BIOS with option to boot from SATA disk or USB CD-ROM

COM EXPRESS API

- Supports COM.0 R2.0 Embedded API for standard control of:
 - ▲ System information
 - ▲ Watchdog timer
 - ▲ I2C bus
 - ▲ Flat panel brightness
 - ▲ User storage area
 - ▲ GPIO

OPERATING SYSTEM

- Microsoft[®] Windows[®] 7 32-bit
- Windows® Embedded Standard 7
- Microsoft Windows XP
- Fedora 12 Linux

Compliance and Certification Information

ENVIRONMENTAL COMPLIANCE

 Standard variant is designed for deployment in 0 °C to 55 °C environments

EMC COMPLIANCE

 Industry standard requirements: Class B (FCC, VCCI, CE, KC, AS/NZ)

MEDICAL COMPLIANCE

- Designed to comply with IEC 60601
- ISO13485

SAFETY STANDARDS

- Designed to comply with UL/CSA 60950-1, EN 60950-1 and IEC 60950-1 CB Scheme including all National and Group Differences. Safety of Information Technology Equipment.
- Certified to UL/CSA No. 60950-1 with no deviations and shall bear the Mark of an NRTL for US and Canada.

Industry Standards

■ PICMG® COM.0 R2.0

Note: COMX-315 will not support PCIbus and IDE

Ordering Information	
Product	Description
COMX-315	COM Express module with 1.0 GHz Intel [®] Atom™ processor E640 with 1GB memory, 0°C to 55 °C operating temperature
COMX-315-DEVKIT	COM Express Starter Kit with COMX-315, heatsink and carrier

SOLUTION SERVICES

Emerson Network Power provides a portfolio of solution services optimized to meet your needs throughout the product lifecycle. Design services help speed time-to-market. Deployment services include global 24x7 technical support. Renewal services enable product longevity and technology refresh.

COM Express is a trademark of PICMG. Intel and Atom are trademarks of Intel Corporation or its subsidiaries in the US or other countries. All other product or service names are the property of their respective owners...

This document identifies products, their specifications, and their characteristics, which may be suitable for certain applications. It does not constitute an offer to sell or a commitment of present or future availability, and should not be relied upon to state the terms and conditions, including warranties and disclaimers thereof, on which Emerson Network Power may sell products. A prospective buyer should exercise its own independent judgment to confirm the suitability of the products for particular applications. Emerson Network Power reserves the right to make changes, without notice, to any products or information herein which will, in its sole discretion, improve reliability, function, or design. Emerson Network Power does not assume any liability arising out of the application of the application of the intellectual property rights or under others. This disclaimer extends to any prospective buyer, and it includes Emerson Network Power's licensee, licensee's transferees, and licensee's customers and users. Availability of some of the products and services described herein may be restricted in some locations.

Emerson Network Power.
The global leader in enabling
Business-Critical Continuity™.

AC Power

Connectivity
DC Power

DC Power

Embedded Computing

Doutside Plant

Doutside Plant

Precision Cooling

Racks & Integrated Cabinets

Services

Services

Surge Protection

Emerson Network Power

Offices: Tempe, AZ U.S.A. 1 800 759 1107 or +1 602 438 5720
Paris, France +33 1 60 92 31 20 • Munich, Germany +49 89 9608 2333 • Tel Aviv, Israel +972 9 9560361
Hong Kong +852 2176 3540 • Shanghai, China +86 21 3395 0289 • Tokyo, Japan +81 3 5403 2730 • Seoul, Korea +82 2 3483 1500

Emerson, Business-Critical Continuity and Emerson Network Power are trademarks of Emerson Electric Co. or one of its affiliated companies. ©2011 Emerson Electric Co.