

Carrier for CoreExpress® V2.1 Modules

Test and evaluation board



Features



Supports CoreExpress Modules conforming to version 2.1 of the standard

VGA, DVI, and LVDS, with backlight

SATA, MicroSD slot

CAN Bus

Gigabit LAN, USB2.0

3x PCI Express x1 lanes, MiniPCI-Express card slot

Specifications

Board Format 215mm x 130mm (8.645" x 5.118")

Processor Depending on the used module:
- Intel® Atom™ E6xx
(CoreExpress-ECO2)
- Marvell Armada™-310
(CoreExpress-A310)

VGA Yes

DVI Yes

LVDS Single channel 18/24 bit LVDS

Backlight - 5V or 12V supply
- Control signal

Audio - HD audio
- S/PDIF
(Audio is not supported by the CoreExpress-A310)

USB 7 x USB2.0 host
- 4 on front panel
- 2 on uDOC socket
- 1 on MiniPCI slot
1 x USB Device

Gigabit LAN 1 port, via RGMII GBit PHY

CAN bus Available on DSUB9 male connector

Serial 2x RS232

PS2 Keyboard, mouse

PCI Express Bus 3 x PCIe x1 lanes

μSD Card slot on board

uDOC IDC header is provided

SATA 2 SATA ports

MiniCard Slot available, including USB host

GPIO 10 free programmable input/output signals
available on IDC header

SM Bus Available on IDC header

LPC Available
(not supported by CoreExpress-A310)

SPI Available on IDC header

System Connector Various signals:
BIOS disable, VBAT, Wake Button, Reset
Button, Power Button

Debug aids POST code display

Power Supply ATX compatible

Power Consumption Depending on the CoreExpress module
used

Operating temperature 0°C...+50°C

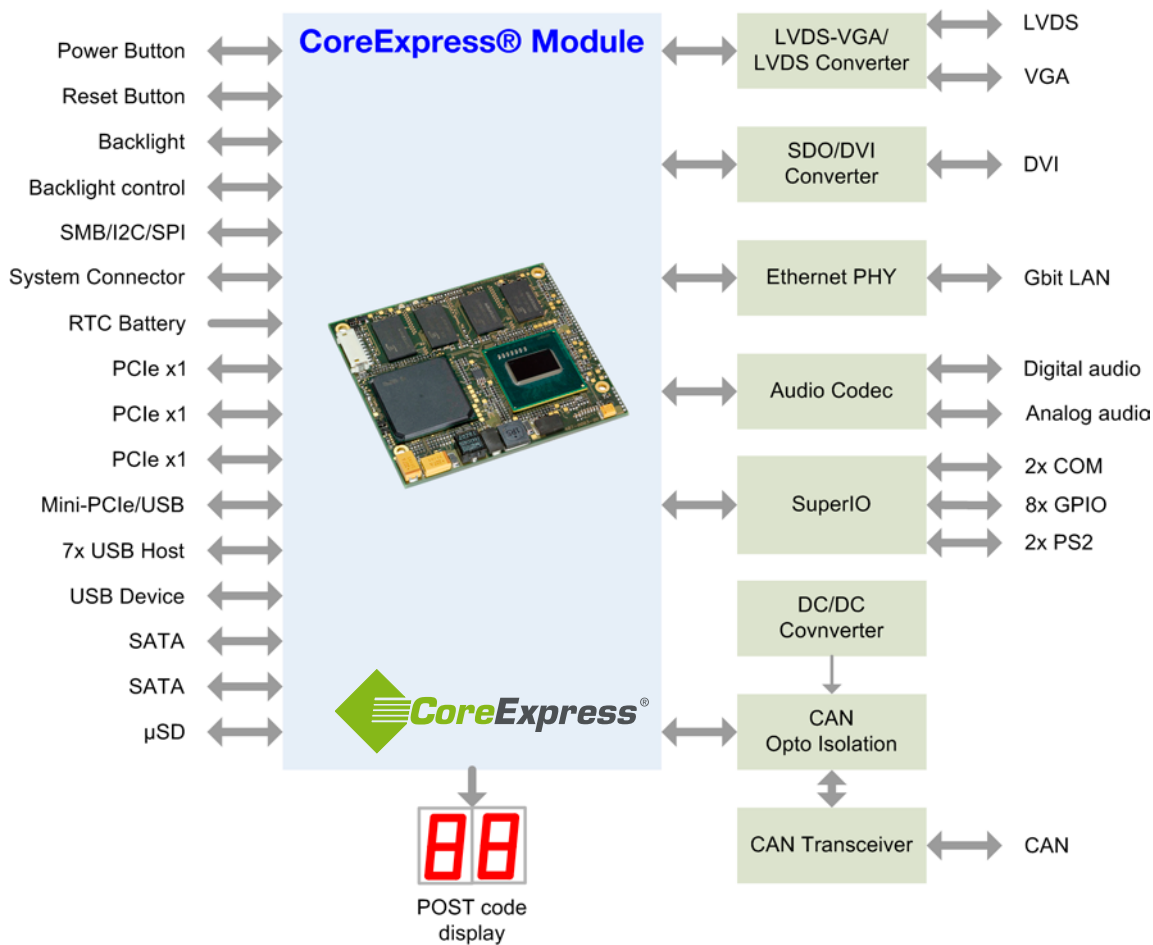
Board Support Packages For CoreExpress-ECO2:
- Windows® Embedded Standard 7
- Windows® CE 6.0 R3
- Ubuntu Linux 11.04
For CoreExpress-A310:
- Debian 6.0

Note: Some of the features depend on the capabilities of the used CoreExpress module and may not be available for your application. Please consult the Technical Manual of the specific CoreExpress module for supported functions.

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Block Diagram



The board is included in these development kits:

for CoreExpress-ECO2 with 1.0GHz / 1 GB RAM	order no. 708-0012-10
for CoreExpress-ECO2 with 1.6GHz / 2 GB RAM	order no. 708-0012-11
for CoreExpress-A310 with 1 GHz / 512MB RAM	order no. 708-0011-10
for other configurations please contact sales@lippertembedded.com	

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