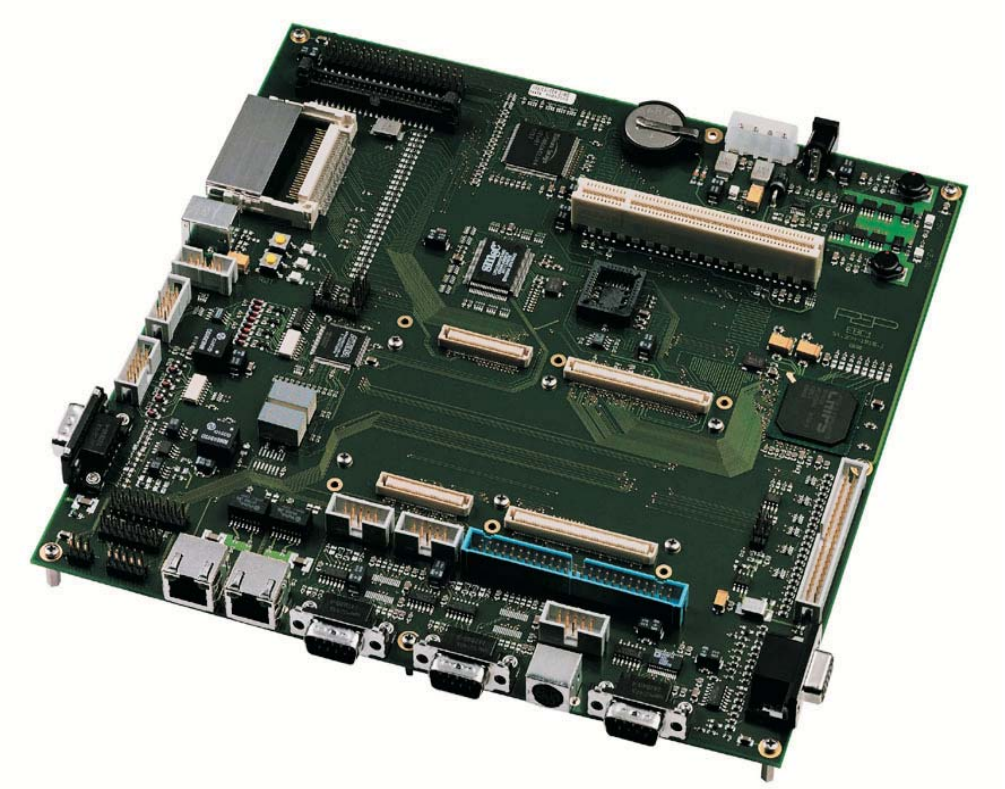
EBC1

E²Brain Evaluation Carrier



Versatile

Easy to use

Fully Featured

E²Brain™ is a highly application oriented new platform for advanced computer modules.

- Let you jump-start with the E²Brain technology.
- Enables instant application software development.
- A perfect match for the E²Brain modules EB8245 and EB860

E²BRAIN

the intelligent module

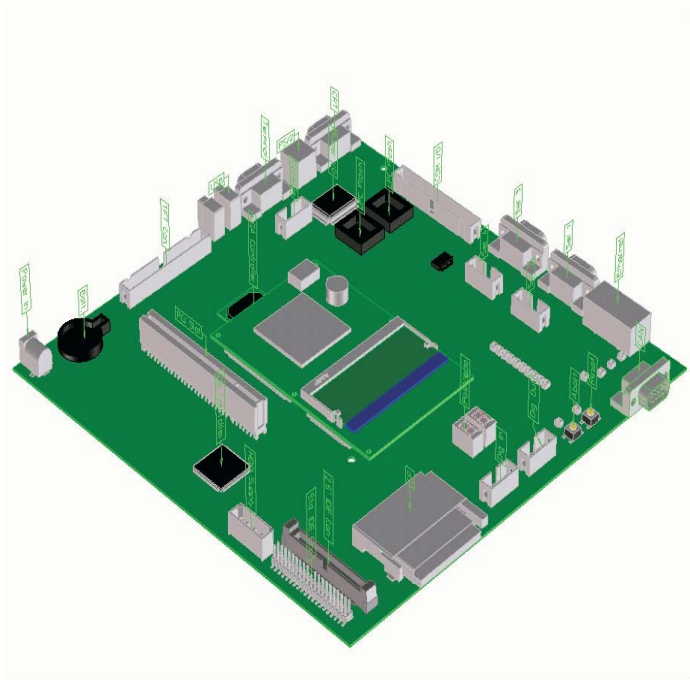
kontron

Product Overview

Finishing projects early gets more and more important in todays fast moving Embedded Computer world. The highly application oriented E²Brain SystemOnModules with an appropriate development carrier board help you achieving this goal.

Versatile
Two modules, one evaluation carrier. The EBC1 hosts the EB860 as well as the EB8245 which are built around Freescale PowerPC CPUs.

Comprehensive
All E²Brain module interfaces are routed to easy-to use connectors. An IDE and a graphics controller together with an industry standard CompactFlash socket complete the feature set, making the board a complete development environment.



Module support
1 E²Brain slot supporting EB860 or EB8245 (optional)
2x 140pin connector (Hirose FX8C-140S-SV5) and
2x 80pin connector (Hirose FX8C-80S-SV5)

Onboard devices
Graphics controller Asilient 69030
IDE/ATA controller SiI680 (ATA/ATAPI-6)
SuperIO controller

Control elements
2x push buttons: reset/abort
3x LED: watchdog, 2x user
2 digit 7segment display for post code or user purposes

Board interfaces

Ethernet	2x RJ45
Serial interfaces	3x DSub 9 male (terminal, RS232)
Serial interface	4pin pinrow (console, RS232)
Serial interfaces	2x 10pin pinrow (RS422/485)
PS/2	MiniDin 6 for keyboard, mouse (via Y-cable)
CAN	DSub 9 male
USB	Dual USB socket
IDE	40pin pinrow, 44pin pinrow connectors
VGA	DSub 15 for connection to CRT monitors
PCI	32bit/33MHz PCI slot for standard 'universal' (3.3V and 5V VIO) PC-PCI extension cards
CompactFlash	Type 2 socket for one CompactFlash card

Debug interface
JTAG/BDM signals on pinrow connector

Power supply
12V DC input (barrel type connector)

Common

Mechanical Conformance:	E²Brain Module Specification Rev. 0.0
Dimensions:	9,6 x 9,6 (Micro ATX)
Temperature Ranges:	0 C to + 55 C
Operation Humidity Range:	0..90% (non-condensing)

Product	Description	Order No.
EB8245-EVALKIT	EB8245 w. 256MB SDRAM, 8MB Flash, 1MB SRAM, CAN, carrier board EBC1, power supply, cables, Linux BSP, documentation	26821
EB860-EVALKIT	EB860 w. 128MB SDRAM, 8MB Flash, 1MB SRAM, CAN, carrier board EBC1, power supply, cables, Linux BSP, documentation	26868
KIT-EBC1	EBC1 documentation on CD-R [1]	25940
VXW-BSP-EB8245	VxWorks Board Support Package EB8245 for WindRiver Workbench	25941
VXW-BSP-EB860	VxWorks Board Support Package EB860 for WindRiver Workbench	26022
Note:	1) Hardware documentation is included in EVALKIT-EBxxx	

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