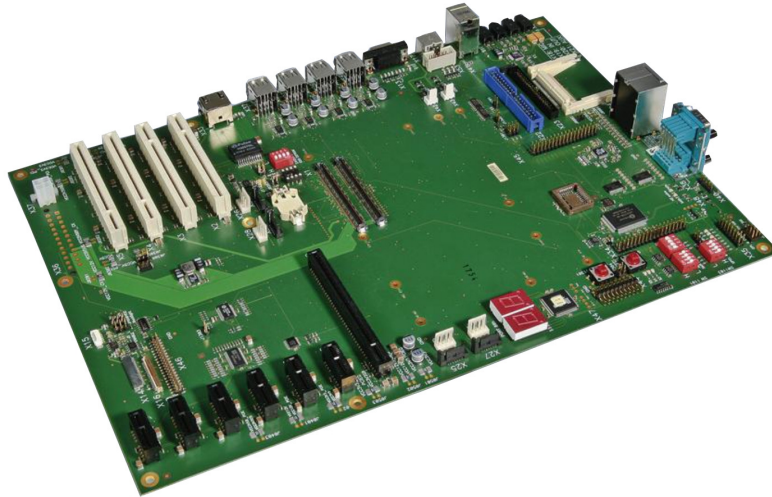


The H4110 COM Express Reference Carrier Board is an ideal platform to develop and prototype the system electronics before it's integrated in the application using a customer specific carrier board. It provides the interface infrastructure for Hectronic's COM Express modules H6309 and H6312 offering PC type connectors for external access. Rapid prototyping to assess the fit of a specific CPU technology is a key instrument to shorten design cycles and to improve time to market of new systems.



Features

- Socket for COM Express Type 2 compatible modules
- All formats supported (extended, basic, micro)
- Extended form factor for development environment with additional support logic (e.g. Super I/O)
- Four PCI slots
- Six PCI Express x1 slots
- Four SATA onboard connectors
- IDE (40/44pin) header
- CompactFlash socket
- COM Express specific interfaces on PC style connectors accessible
- Eight USB interfaces
- AC'97 audio codec and high definition audio codec on board
- Post code LED display for easy boot process control
- Three different connectors to connect an LVDS display
- ATX power connector

H4110 - Technical Specifications

Module Interface		Miscellaneous	
COM Express module connector	Socket for COM Express module type 2 supports all module sizes (micro, basic, extended)	GPIO	3 4 x GPO driving 4 LEDs in parallel, 4 x GPI connected to DIP switches in parallel
Bus Interfaces		Post Code Port	80 display for boot information
PCI Express	Six PCI Express x1 slots	Super I/O	Winbond W83627THF driving 2x RS232, 1 x IrDA, PS/2 Mouse/Keyboard, system monitoring and fan control
PCI	Four PCI slots 32-bit V2.1	LAN Interface	
LPC	LPC bus on 36 pin header	Ethernet	RJ45 connector for LAN on COMe module, 10/100/1000 Mb/s supported, depending on COM Express module used, two status LED's integrated
PCI Express Graphics	One PCI Express x16 Graphics slot alternatively two SDVO channels	Sound Interface	
Drives		Audio	AC'97 codec for MIC, Line-In, Line-Out and headphone on external connector, high definition audio codex supports 8 channels
SATA	4 x SATA (150MB/s)	Power Supply	
IDE	Primary Channel on 44 pin and 40 Pin connector for Ultra ATA-100/66/33	Power	Standard 24 pin ATX power connector and additional ATX12V connector; power requirement depending on COMe Express module used
Compact Flash	Socket for True IDE devices using primary IDE channel	Environment	
Standard Interfaces		Ambient	0°... +55°C operating
USB	8 x USB 2.0 supported	Temperature	-25°... 85°C storage
Serial	2 x COM on 9 pin Dsub connector	Humidity	20 ... 80% operating 5 ... 95% storage (non condensing)
IrDA	1 x IrDA using one COM port	Mechanical	
Keyboard	PS/2 (from Super I/O W83627THF) or USB keyboard	Dimensions	368mm x 255mm, (LxW)
Mouse	PS/2 (from Super I/O W83627THF) or USB mouse		
Flat Panel/CRT Interface			
Graphics	Standard VGA monitor interface (Dsub15pin)		