AA1100

High performance, very low power consumption

The AA1100 has been designed using Broadcom's Alchemy™ processor the Au1100™. The AA1100 is designed for high performance, low power applications. Its high integration systems-on-a-chip (SOC) CPU is designed for mobile information appliances and PDAs. This concept enables the board to run industry standard operating systems and applications, thereby reducing the development time for the user.

Feature Rich

A LCD interface for TFT, three serial ports, touch screen and keypad interfaces, solid state disks and Compact Flash support are all included on the AA1100. Added to this are Ethernet and USB ports as well as sound (AC97) and a four channel 12 bit A/D converter.

Highly Flexible

The AA1100 is an internet-ready appliance, which has a web browser and server built-in when using DSP Design's pre-configured Windows CE .NET operating system. With its host of I/O functions the AA1100 can be rapidly configured to be a data entry terminal, data logger, messaging system, control system or simply a monitoring unit.

Small Form Factor

The AA1100 is one of the smallest footprint computers available and its credit card size, low power consumption, high performance and extensive feature list make the Aurora ideal for hand held and portable computing applications.
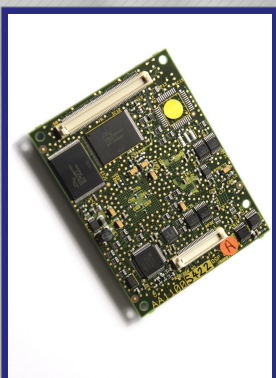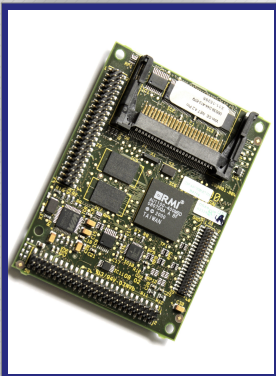
Reduce Your Time to Market

The LaunchPad application development kit for AA1100 is a complete, ready-to-use embedded computer system, that's waiting for your application to be placed into the solid state disk. Using the LaunchPad will greatly reduce your development time, so your product will get to market sooner at a fraction of the engineering costs normally associated with this type of project - a definite win-win solution!

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AA1100

Processor	Broadcom Alchemy™ Au1100™ processor at 400MHz.
Memory	64MBytes of on-board RAM
Storage	32MBytes of on-board NOR flash Compact Flash socket allowing storage and peripheral expansion
Serial	Three serial ports: COM1 and COM2 are 2-wire RS232 , COM3 is 8-wire RS232/485
Ethernet	10/100 Base-T Ethernet
USB	Two USB 1.1 host ports
Displays	16-bit Display interface capable of driving mono, CSTN and TFT LCDs at resolutions up to 800x600
Audio	An AC97 codec provides microphone and stereo line inputs and line outputs. There are built-in drivers for headphones and small speakers
Touch Screen	4 wire resistive Touch Screen Controller
Expansion	A 16-bit data bus, address bus and programmable chip selects are brought out for further memory, PCMCIA cards or peripherals
Realtime Clock	Battery backed Real Time Clock
IrDA	SIR compatible (transceiver mounted off-board)
Analog IO	A four channel 12-bit ADC with a 0-3V input range
Serial EEPROM	512 bytes for storing setup information
Watchdog	Hardware watchdog timer
Power	Single 3.3V supply at 250mA (typ) at full speed
Mechanical	85mm x 65mm form factor
Environmental	0 to +70° C operating temperature range

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