

## Athena to Athena II Migration Guide

The Athena II single board computer product family is upward compatible from the original Athena family. Moreover, there are a number of important changes to Athena II which make it a superior single board computer for applications which require data acquisition. These changes are as follows:

Feature	Original Athena	New Athena II
Processor	Via Eden at 400MHz or 660MHz	Via Mark CoreFusion CPU at 500MHz or 800MHz
Chipset	Via VT8606 + Via 82C686B	Via Mark (VT8606 integrated) + 82C686B
Cooling	400MHz fan-less 660MHz fan	500MHz fan-less 800MHz fan-less if top board on stack, with low profile heatsink has an operating temperature of -40°C to +70°C 800MHz with fan, operating temp of -40°C to +85°C
Memory	128MB (all models)	256MB (all models)
A/D Calibration	Manual	Autocalibration
Sample FIFO	48 samples	512 samples
RoHS	No	Yes

The Athena II footprint and mounting holes are unchanged. The 800MHz version with tall heat sink violates the PC/04 height envelop. The 800MHz version with low profile heatsink preserves the height envelop but has an operating temperature of -40°C to +70°C.

No software, cabling or jumper changes are required. The connectors are of the same types and have identical pinout. Some connector locations have shifted slightly, but remain in the same general area. The Pandora Panel Board (PNL-EAP-01) will mate with the Athena II as with the original Athena.

### Part Number Transition

Users of original Athena Part Number . . .	Should Order New Athena II Part Number
ATH400-128	ATHM500-256A
ATH400-128N	ATHM500-256N
ATH660-128	ATHM800-256A or -256ALP
ATH660-128N	ATHM800-256N or -256NLP

### More Information

Detailed information about Athena II, including a data sheet, user manual and ordering information, may be found at [www.diamondsystems.com/products/athenaii](http://www.diamondsystems.com/products/athenaii)