



HP AMD Athlon 64 X2 B24 processor 3 GHz

Brand : HP

Product code: AU688AV

Product name : AMD Athlon 64 X2 B24



AMD Athlon 64 X2 B24 (2M, 3GHz) Processor Upgrade

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Athlon 64 x2 are dual-core microprocessors best suited for running multiple applications on one computer. "X2" part in name is easy to explain - these processors incorporate two Athlon 64 cores on one die, hence it's an Athlon 64 x2. Having two-cores on one die comes at a price, though:

- X2 processors have much bigger die size - 218 mm² for 0.09 micron processors with 1 MB L2 cache. For comparison, Athlon 64 with 1 MB L2 cache has almost two times smaller die size (112.9 mm²).
- Power consumption of two-core CPU is higher. For example, socket AM2 Athlon 64 X2 3800+ has Thermal Design Power 89 Watt, which is 27 Watt more than TDP of Athlon 64 3800+.

HP AMD Athlon 64 X2 B24. Processor family: AMD Athlon II X2, Processor socket: Socket AM2+/AM3, Processor lithography: 45 nm. Memory channels: Dual-channel

Processor		Memory	
Processor model *	B24	Memory channels *	Dual-channel
Processor base frequency *	3 GHz	Graphics	
Processor family *	AMD Athlon II X2	On-board graphics card *	✗
Processor cores *	2	Processor special features	
Processor socket *	Socket AM2+/AM3	AMD Cool'n'Quiet Technology	✓
Processor lithography *	45 nm	AMD HyperTransport Technology	✓
Processor threads	2	Operational conditions	
Processor operating modes *	64-bit	Operating temperature (T-T)	55 - 74 °C
Processor front side bus	533 MHz	Maximum operating temperature	74 °C
Thermal Design Power (TDP)	65 W	Other features	
Box *	✗	On-board memory controller	✓
VID Voltage Range	0.85 - 1.425 V		

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