



# G31M-S

- LGA 775 for Intel® Core™ 2 Extreme / Core™ 2 Quad / Core™ 2 Duo / Pentium® Dual Core / Celeron® Dual Core / Celeron, supporting Penryn Quad Core Yorkfield and Dual Core Wolfdale processors
- Intel® G31 + ICH7 Chipsets
- Compatible with FSB 1600/1333/1066/800 MHz CPUs
- Supports Dual Channel DDR2 800/667 (2 x DIMM slots) with max. capacity up to 8GB
- Intel® Graphics Media Accelerator 3100, DirectX 9.0, Max. shared memory 384MB
- 1 x PCI Express x16 slot
- 4 x SATA2 3.0 Gb/s connectors, 10/100 Ethernet LAN
- Supports ASRock Instant Boot
- Supports Smart BIOS, ASRock OC Tuner, Intelligent Energy Saver, Extra ESD Protection

This model may not be sold worldwide. Please contact your local dealer for the availability of this model in your region.

Specification

Support

Download

BIOS

Manual

FAQ

CPU Support List

## CPU Support List

Socket	Family	Number	Core	Frequency	FSB	Cache	Power	Validated BIOS
775	Core 2 Extreme	X6800	Conroe XE	2.93GHz	1066MHz	4MB		All
775	Core 2 Quad	Q9650(E0)	Yorkfield	3.0GHz	1333MHz	12MB		All
775	Core 2 Quad	Q9550(C1)	Yorkfield	2.83GHz	1333MHz	12MB		All
775	Core 2 Quad	Q9550(E0)	Yorkfield	2.83GHz	1333MHz	12MB		All
775	Core 2 Quad	Q9550(C0)	Yorkfield	2.83GHz	1333MHz	12MB		All
775	Core 2 Quad	Q9505S(R0)	Yorkfield	2.83GHz	1333MHz	6MB		P1.80
775	Core 2 Quad	Q9505(R0)	Yorkfield	2.83GHz	1333MHz	6MB		P1.80
775	Core 2 Quad	Q9450(C1)	Yorkfield	2.66GHz	1333MHz	12MB		All
775	Core 2 Quad	Q9450(C0)	Yorkfield	2.66GHz	1333MHz	12MB		All
775	Core 2 Quad	Q9400(R0)	Yorkfield	2.66GHz	1333MHz	6MB		All
775	Core 2 Quad	Q9300(M1)	Yorkfield	2.50GHz	1333MHz	6MB		All
775	Core 2 Quad	Q9300(M0)	Yorkfield	2.5GHz	1333MHz	6MB		All
775	Core 2 Quad	Q8400S(R0)	Yorkfield	2.66GHz	1333MHz	4MB		All
775	Core 2 Quad	Q8400(R0)	Yorkfield	2.66GHz	1333MHz	4MB		All
775	Core 2 Quad	Q8300(R0)	Yorkfield	2.50GHz	1333MHz	4MB		All
775	Core 2 Quad	Q8200(R0)	Yorkfield	2.33GHz	1333MHz	4MB		All
775	Core 2 Quad	Q8200(M1)	Yorkfield	2.33GHz	1333MHz	4MB		All
775	Core 2 Quad	Q6700(G0)	Kentsfield	2.66GHz	1066MHz	8MB		All
775	Core 2 Quad	Q6600(G0)	Kentsfield	2.4GHz	1066MHz	8MB		All
775	Core 2 Quad	Q6600(B3)	Kentsfield	2.40GHz	1066MHz	8MB		All
775	Core 2 Quad	Q6400(B3)	Kentsfield	2.13GHz	1066MHz	8MB		All
775	Core 2 Duo	E8600(E0)	Wolfdale	3.33GHz	1333MHz	6MB		All
775	Core 2 Duo	E8500(C0)	Wolfdale	3.16GHz	1333MHz	6MB		All
775	Core 2 Duo	E8500(E0)	Wolfdale	3.16GHz	1333MHz	6MB		All
775	Core 2 Duo	E8400(C0)	Wolfdale	3.0GHz	1333MHz	6MB		All

Socket	Family	Number	Core	Frequency	FSB	Cache	Power	Validated BIOS
775	Core 2 Duo	E8400(E0)	Wolfdale	3.0GHz	1333MHz	6MB	65W	All
775	Core 2 Duo	E8300(C0)	Wolfdale	2.83GHz	1333MHz	6MB		All
775	Core 2 Duo	E8200(C0)	Wolfdale	2.66GHz	1333MHz	6MB		All
775	Core 2 Duo	E8190(C0)	Wolfdale	2.66GHz	1333MHz	6MB		All
775	Core 2 Duo	E7600(R0)	Wolfdale	3.06GHz	1066MHz	3MB		All
775	Core 2 Duo	E7500(R0)	Wolfdale	2.93GHz	1066MHz	3MB		All
775	Core 2 Duo	E7400(R0)	Wolfdale	2.80GHz	1066MHz	3MB		All
775	Core 2 Duo	E7300(M0)	Wolfdale	2.66GHz	1066MHz	3MB		All
775	Core 2 Duo	E7200(M0)	Wolfdale	2.53GHz	1066MHz	3MB		All
775	Core 2 Duo	E6850(G0)	Conroe	3.00GHz	1333MHz	4MB		All
775	Core 2 Duo	E6850	Conroe	3.00GHz	1333MHz	4MB		All
775	Core 2 Duo	E6750	Conroe	2.66GHz	1333MHz	4MB		All
775	Core 2 Duo	E6750(G0)	Conroe	2.66GHz	1333MHz	4MB		All
775	Core 2 Duo	E6700	Conroe	2.66GHz	1066MHz	4MB		All
775	Core 2 Duo	E6600	Conroe	2.40GHz	1066MHz	4MB		All
775	Core 2 Duo	E6550	Conroe	2.33GHz	1333MHz	4MB		All
775	Core 2 Duo	E6540(G0)	Conroe	2.33GHz	1333MHz	4MB		All
775	Core 2 Duo	E6420	Conroe	2.13GHz	1066MHz	4MB		All
775	Core 2 Duo	E6400(L2)	Conroe	2.13GHz	1066MHz	2MB		All
775	Core 2 Duo	E6400	Conroe	2.13GHz	1066MHz	2MB		All
775	Core 2 Duo	E6320	Conroe	1.86GHz	1066MHz	4MB	All	
775	Core 2 Duo	E6300(L2)	Conroe	1.86GHz	1066MHz	2MB	All	
775	Core 2 Duo	E6300	Conroe	1.86GHz	1066MHz	2MB	All	
775	Core 2 Duo	E4700	Conroe	2.6GHz	800MHz	2MB	All	
775	Core 2 Duo	E4600(M0)	Conroe	2.4GHz	800MHz	2MB	All	
775	Core 2 Duo	E4600	Conroe	2.4GHz	800MHz	2MB	All	
775	Core 2 Duo	E4500(M0)	Conroe	2.20GHz	800MHz	2MB	All	
775	Core 2 Duo	E4400(M0)	Conroe	2.0GHz	800MHz	2MB	All	
775	Core 2 Duo	E4400(L2)	Conroe	2.00GHz	800MHz	2MB	All	
775	Core 2 Duo	E4300(L2)	Conroe	1.80GHz	800MHz	2MB	All	
775	Pentium Dual Core	E6300(R0)	Wolfdale	2.80GHz	1066MHz	2MB	All	
775	Pentium Dual Core	E5800	Wolfdale	3.2GHz	800MHz	2MB	All	
775	Pentium Dual Core	E5400(R0)	Wolfdale	2.70GHz	800MHz	2MB	All	
775	Pentium Dual Core	E5300(R0)	Wolfdale	2.60GHz	800MHz	2MB	All	
775	Pentium Dual Core	E5200(M0)	Wolfdale	2.50GHz	800MHz	2MB	All	
775	Pentium Dual Core	E2220(M0)	Conroe 1M	2.40GHz	800MHz	1MB	All	
775	Pentium Dual Core	E2200(M0)	Conroe 1M	2.20GHz	800MHz	1MB	All	
775	Pentium Dual Core	E2180(M0)	Conroe 1M	2.0GHz	800MHz	1MB	All	
775	Pentium Dual Core	E2160	Conroe 1M	1.80GHz	800MHz	1MB	All	
775	Pentium Dual Core	E2140	Conroe 1M	1.60GHz	800MHz	1MB	All	
775	Pentium D	960(D0)	Presler	3.60GHz	800MHz	4MB	All	
775	Pentium D	950(C1)	Presler	3.40GHz	800MHz	4MB	All	
775	Pentium D	945(D0)	Presler	3.40GHz	800MHz	4MB	All	
775	Pentium D	945	Presler	3.40GHz	800MHz	4MB	All	
775	Pentium D	940(C1)	Presler	3.20GHz	800MHz	4MB	All	
775	Pentium D	935(D0)	Presler	3.20GHz	800MHz	4MB	All	
775	Pentium D	930(C1)	Presler	3.00GHz	800MHz	4MB	All	
775	Pentium D	930	Presler	3.00GHz	800MHz	4MB	All	
775	Pentium D	925	Presler	3.00GHz	800MHz	4MB	All	
775	Pentium D	920	Presler	2.80GHz	800MHz	4MB	All	
775	Pentium D	915	Presler	2.80GHz	800MHz	4MB	All	
775	Pentium D	820	Smithfield	2.80GHz	800MHz	2MB	All	
775	Pentium 4	661(C1)	Cedar Mill	3.60GHz	800MHz	2MB	All	
775	Pentium 4	661(D0)	Cedar Mill	3.60GHz	800MHz	2MB	All	
775	Pentium 4	661	Cedar Mill	3.60GHz	800MHz	2MB	All	
775	Pentium 4	651(D0)	Cedar Mill	3.40GHz	800MHz	2MB	All	
775	Pentium 4	651(C1)	Cedar Mill	3.40GHz	800MHz	2MB	All	
775	Pentium 4	651	Cedar Mill	3.40GHz	800MHz	2MB	All	
775	Pentium 4	650	Prescott	3.40GHz	800MHz	2MB	All	
775	Pentium 4	641(D0)	Cedar Mill	3.20GHz	800MHz	2MB	All	
775	Pentium 4	641	Cedar Mill	3.20GHz	800MHz	2MB	All	
775	Pentium 4	640	Prescott	3.20GHz	800MHz	2MB	All	
775	Pentium 4	631(D0)	Cedar Mill	3.00GHz	800MHz	2MB	All	
775	Pentium 4	631	Cedar Mill	3.00GHz	800MHz	2MB	All	
775	Pentium 4	630	Prescott	3.00GHz	800MHz	2MB	All	
775	Pentium 4	551(G1)	Prescott	3.40GHz	800MHz	1MB	All	
775	Pentium 4	551	Prescott	3.40GHz	800MHz	1MB	All	
775	Pentium 4	550J	Prescott	3.40GHz	800MHz	1MB	All	
775	Pentium 4	541	Prescott	3.20GHz	800MHz	1MB	All	
775	Pentium 4	540J	Prescott	3.20GHz	800MHz	1MB	All	
775	Pentium 4	540	Prescott	3.20GHz	800MHz	1MB	All	
775	Pentium 4	531	Prescott	3.00GHz	800MHz	1MB	All	

Socket	Family	Number	Core	Frequency	FSB	Cache	Power	Validated BIOS
775	Pentium 4	530J	Prescott	3.00GHz	800MHz	1MB		All
775	Pentium 4	530	Prescott	3.00GHz	800MHz	1MB		All
775	Pentium 4	521	Prescott	2.80GHz	800MHz	1MB		All
775	Pentium 4	520J	Prescott	2.80GHz	800MHz	1MB		All
775	Pentium 4	520	Prescott	2.80GHz	800MHz	1MB		All
775	Celeron Dual Core	E3300(R0)	Wolfdale	2.50GHz	800MHz	1MB		All
775	Celeron Dual Core	E3200(R0)	Wolfdale	2.40GHz	800MHz	1MB		All
775	Celeron Dual Core	E1600	Conroe	2.4GHz	800MHz	512KB		All
775	Celeron Dual Core	E1500	Conroe	2.2GHz	800MHz	512KB		All
775	Celeron Dual Core	E1400	Conroe	2.0GHz	800MHz	512KB		All
775	Celeron Dual Core	E1300	Conroe	1.8GHz	800MHz	512KB		All
775	Celeron Dual Core	E1200	Conroe	1.6GHz	800MHz	512KB		All
775	Celeron	460	Conroe-L	2.40GHz	800MHz	512KB		All
775	Celeron	450(A1)	Conroe-L	2.20GHz	800MHz	512KB		All
775	Celeron	440	Conroe-L	2.00GHz	800MHz	512KB		All
775	Celeron	430	Conroe-L	1.80GHz	800MHz	512KB		All
775	Celeron	420	Conroe-L	1.60GHz	800MHz	512KB		All

If you need to update BIOS, please click [here](#).

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The above user interface picture is a sample for reference. The actual user interface may vary with the updated software version.



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