

M4N757D

DDR3 1067 Qualified Vendors List (QVL)

	Part No.	Size	SS/DS	Chip Brand	Chip No.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
Crucial	CT12864BA1067.8FF	1GB	SS	MICRON	D9KPT	7	-			
Crucial	CT12864BA1067.8SFD	1GB	SS	MICRON	D9JNL	7	-			
Crucial	CT12872BA1067.9FF	1GB	SS	MICRON	D9KPT(ECC)	7	-			
Crucial	CT25664BA1067.16FF	2GB	DS	MICRON	D9KPT	7	-			
Crucial	CT25664BA1067.16SFD	2GB	DS	MICRON	D9JNL	7	-			
Crucial	CT25672BA1067.18FF	2GB	DS	MICRON	D9KPT(ECC)	7	-			
ELPIDA	EBJ10UE8BAWO-AE-E	1GB	SS	ELPIDA	J1108BABG-DJ-E	7	-			
ELPIDA	EBJ10UE8EDFO-AE-F	1GB	SS	ELPIDA	J1108EDSE-DJ-F	-	-			
ELPIDA	EBJ11UD8BAFA-AE-E	1GB	DS	ELPIDA	J5308BASE-AC-E(ECC)	7	-			
ELPIDA	EBJ11UD8BAFA-AC-E	1GB	DS	ELPIDA	J5308BASE-AC-E	8	-			
ELPIDA	EBJ21UE8BAWO-AE-E	2GB	DS	ELPIDA	J1108BABG-DJ-E	7	-			
ELPIDA	EBJ21UE8EDFO-AE-F	2GB	DS	ELPIDA	J1108EDSE-DJ-F	-	-			
Hynix	HMT112U6AFP8C-G7N0	1GB	SS	HYNIX	H5TQ1G831ZNFPG7C	7	-			
Hynix	HYMT112U64ZF8-F7	1GB	SS	HYNIX	HY5TQ1G831ZNFPG-G7	7	-			
Hynix	HMT125U6AFP8C-G7N0	2GB	DS	HYNIX	H5TQ1G831ZNFPG7C	7	-			
Hynix	HYMT125U64ZF8-G7	2GB	DS	HYNIX	HY5TQ1G831ZNFPG-G7	7	-			
KINGSTON	KVR1066D3N7/1G	1GB	SS	KINGSTON	D1288JEKAPA7U	7	1.5			
KINGSTON	KVR1066D3N7/2G	2GB	DS	KINGSTON	D1288JEKAPGA7U	7	1.5			
KINGSTON	KVR1066D3N7/2G	2GB	DS	ELPIDA	J1108BABG-DJ-E	-	1.5			
KINGSTON	KVR1066D3N7/4G	4GB	DS	SAMSUNG	K4B2G0846B-HCF8	-	1.5			
MICRON	MT8JTF12864AY-1G1D1	1GB	SS	MICRON	7VD22	7	-			
MICRON	MT8JTF12864AZ-1G1F1	1GB	SS	MICRON	8ZF22 D9KPV	7	-			
MICRON	MT8JTF12864AZ-1G1F1	1GB	SS	MICRON	D9KPT	7	-			
MICRON	MT9J5F12872AZ-1G1F1	1GB	SS	MICRON	D9KPT(ECC)	7	-			
MICRON	MT16JTF25664AY-1G1D1	2GB	DS	MICRON	7VD22	7	-			
MICRON	MT16JTF25664AZ-1G1F1	2GB	DS	MICRON	8ZF22 D9KPV	7	-			
MICRON	MT16JTF25664AZ-1G1F1	2GB	DS	MICRON	D9KPT	7	-			
MICRON	MT18J5F25672AZ-1G1F1	2GB	DS	MICRON	D9KPT(ECC)	7	-			
SAMSUNG	M378B5273BH1-CF8	4GB	DS	SAMSUNG	K4B2G0846B-HCF8	8	1.5			
Asint	SLY3128M8-EAE	1GB	SS	Asint	DDRIII1208-AE	-	-			
Asint	SLZ3128M8-EAE	2GB	DS	Asint	DDRIII1208-AE	-	-			
Elixir	M2Y2G64CB8HA9N-BE	2GB	DS	-	-	-	-			
Elixir	M2Y2G64CB8HC9N-BE	2GB	DS	-	-	-	-			
Elixir	M2Y2G64CB8HC9N-BE	2GB	DS	-	-	-	-			
WINTeC	3DU3191A-10	1GB	DS	Olmonda	IDSH51-03A1F1C-10F	7	-			

- 4 DIMM Slots
- **1 DIMM:** Supports one module inserted in any slot as Single-channel memory configuration
  - **2 DIMM:** Supports one pair of modules inserted into either the blue slots or the black slots as one pair of Dual-channel memory configuration
  - **4 DIMM:** Supports 4 modules inserted into both the blue and black slots as two pairs of Dual-channel memory configuration
- When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
- It is recommended to install the memory modules from the slots for better overclocking capability.
- The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

DDR3 1333 Qualified Vendors List (QVL)

Crucial	BL25664BN1337.16FF(XMP)	2GB	DS	MICRON	D9KPT(ECC)	9	-	7-7-7-24	1.65	•	•	•	•
Crucial	CT25664BA1339.16FF	2GB	DS	MICRON	D9KPT	9	-	-	-	•	•	•	•
Crucial	CT25664BA1339.16SFD	2GB	DS	MICRON	D9JNM	-	-	-	-	•	•	•	•
Crucial	CT25672BA1339.18FF	2GB	DS	MICRON	D9KPT(ECC)	9	-	-	-	•	•	•	•
Crucial	BL25664BA1336.16SFB1	4GB(2 x 2GB)	DS	NA	-	-	-	6-6-6-20	1.8	•	•	•	•
ELPIDA	EBJ10UE8BAWO-DJ-E	1GB	SS	ELPIDA	J1108BABG-DJ-E	9	-	-	-	•	•	•	•
ELPIDA	EBJ10UE8BDFO-DJ-F	1GB	SS	ELPIDA	J1108BDSE-DJ-F	-	-	-	-	•	•	•	•
ELPIDA	EBJ10UE8EDFO-DJ-F	1GB	SS	ELPIDA	J1108EDSE-DJ-F	-	-	-	-	•	•	•	•
ELPIDA	EBJ21UE8BAWO-DJ-E	2GB	DS	ELPIDA	J1108BABG-DJ-E	9	-	-	-	•	•	•	•
ELPIDA	EBJ21UE8BDFO-DJ-F	2GB	DS	ELPIDA	J1108BDSE-DJ-F	-	-	-	-	•	•	•	•
ELPIDA	EBJ21UE8EDFO-DJ-F	2GB	DS	ELPIDA	J1108EDSE-DJ-F	-	-	-	-	•	•	•	•
G.SKILL	F3-10600CL7D-2GBPI	2GB(2 x 1GB)	SS	-	-	-	-	-	1.65	•	•	•	•
G.SKILL	F3-10600CL8D-2GBHK	2GB(2 x 1GB)	SS	-	-	-	-	-	1.65	•	•	•	•
G.SKILL	F3-10666CL7T-6GBPK(XMP)	2GB	DS	-	-	-	-	7-7-7-18	1.5-1.6	•	•	•	•
G.SKILL	F3-10666CL7D-4GBPI(XMP)	4GB(2 x 2GB)	DS	-	-	-	-	7-7-7-21	1.5	•	•	•	•
G.SKILL	F3-10666CL7D-4GBRH(XMP)	4GB(2 x 2GB)	DS	-	-	-	-	7-7-7-21	1.5	•	•	•	•
G.SKILL	F3-10666CL8D-4GBECO(XMP)	4GB(2 x 2GB)	DS	-	-	-	-	8-8-8-24	1.35	•	•	•	•
G.SKILL	F3-10666CL8D-4GBHK(XMP)	4GB(2 x 2GB)	DS	-	-	-	-	8-8-8-21	1.5-1.6	•	•	•	•
G.SKILL	F3-10666CL8D-4GBRM(XMP)	4GB(2 x 2GB)	DS	-	-	-	-	8-8-8-21	1.5-1.6	•	•	•	•
G.SKILL	F3-10666CL9T-6GBNQ	6GB(3 x 2GB)	DS	-	-	-	-	9-9-9-24	1.5	•	•	•	•
GEIL	GG34GB1333C9DC	4GB(2 x 2GB)	DS	GEIL	GL1L128M88BA12N	9-9-9-24	1.3	-	-	-	-	-	-
GEIL	GV34GB1333C7DC	4GB(2 x 2GB)	DS	-	-	-	-	7-7-7-24	1.5	-	-	-	-
Hynix	HMT112U6BFR8C-H9	1GB	SS	Hynix	H5TQ1G83BFR	9	-	-	-	•	•	•	•
Hynix	HMT125U6BFR8C-H9	2GB	DS	Hynix	H5TQ1G83BFR	9	-	-	-	•	•	•	•
Hynix	HMT125U6BFR8C-H9	2GB	DS	Hynix	H5TQ1G83BFRH9C	9	-	-	-	•	•	•	•
KINGMAX	FLFD45F-B8KG9	1GB	SS	KingMax	KFB8FNGBF-ANX-15A	-	-	-	-	•	•	•	•
KINGMAX	FLFE85F-B8KG9	2GB	DS	KingMax	KFB8FNGBF-ANX-15A	-	-	-	-	•	•	•	•
KINGSTON	KVR1333D3N9/1G	1G	SS	Kingston	D1288JELDPGD9U	-	1.5	-	-	•	•	•	•
KINGSTON	KVR1333D3N9/2G	2GB	DS	Qimonda	IDSH1G-03A1F1C-13H	9	1.5	-	-	•	•	•	•
KINGSTON	KVR1333D3E9/4G	4GB	DS	SAMSUNG	K4B2G0846B-HCH9	-	1.5	-	-	•	•	•	•
KINGSTON	KVR1333D3N9/4G	4GB	DS	SAMSUNG	K4B2G0846B-HCH9	9	1.5	-	-	•	•	•	•
MICRON	MT8JTF12864AZ-1G4F1	1GB	SS	MICRON	9FF22 D9KPT	9	-	-	-	•	•	•	•
MICRON	MT8JTF12864AZ-1G4F1	1GB	SS	MICRON	D9KPT	9	-	-	-	•	•	•	•
MICRON	MT9J5F12872AZ-1G4F1	1GB	SS	MICRON	D9KPT(ECC)	9	-	-	-	•	•	•	•
MICRON	MT16JF25664AZ-1G4F1	2GB	DS	MICRON	D9KPT	9	-	-	-	•	•	•	•
MICRON	MT16JTF25664AZ-1G4F1	2GB	DS	MICRON	9FF22 D9KPT	9	-	-	-	•	•	•	•
MICRON	MT18J5F25672AZ-1G4F1	2GB	DS	MICRON	D9KPT(ECC)	9	-	-	-	•	•	•	•
OCZ	OC23RPX1333EB2GK	1GB	SS	-	-	-	-	-	-	-	-	-	-
OCZ	OC23RPX1333EB2GK	2GB(2 x 1GB)	SS	NANYA	-	-	-	6-5-5	1.85	-	-	-	-
OCZ	OC23G1333LV3GK	3GB(3 x 1GB)	SS	-	-	-	-	9-9-9	1.65	-	-	-	-
OCZ	OC23P1333LV3GK	3GB(3 x 1GB)	SS	-	-	-	-	7-7-7	1.65	-	-	-	-
OCZ	OC23P13332GK	1GB	DS	-	-	-	-	7-7-7-20	-	-	-	-	-
OCZ	OC23G13334GK	4GB(2 x 2GB)	DS	-	-	-	-	9	1.7	-	-	-	-
OCZ	OC23G1333ULV4GK	4GB(2 x 2GB)	DS	-	-	-	-	8-8-8	1.65	-	-	-	-
OCZ	OC23P13334GK	4GB(2 x 2GB)	DS	-	-	-	-	7	1.8	-	-	-	-
OCZ	OC23P1333LV4GK	4GB(2 x 2GB)	DS	-	-	-	-	7-7-7	1.65	•	-	-	-
OCZ	OC23RPX1333EB4GK	4GB(2 x 2GB)	DS	-	-	-	-	-	1.85	-	-	-	-
OCZ	OC23G1333LV6GK	6GB(3 x 2GB)	DS	-	-	-	-	9-9-9	1.65	-	-	-	-
OCZ	OC23P1333LV6GK	6GB(3 x 2GB)	DS	-	-	-	-	7-7-7	1.65	-	-	-	-
OCZ	OC2X1333LV6GK(XMP)	6GB(3 x 2GB)	DS	NA	-	-	-	8-8-8	1.6	•	•	•	•
PSC	AL7F8G73D-DG1	1GB	SS	PSC	A3P1GF3DGF	-	-	-	-	•	•	•	•
PSC	AL8F8G73D-DG1	2GB	DS	PSC	A3P1GF3DGF	-	-	-	-	•	•	•	•
SAMSUNG	M378B2873DZ1-CH9	1GB	SS	SAMSUNG	K4B1G0846D	9	-	-	-	•	•	•	•
SAMSUNG	M378B2873EH1-CH9	1GB	SS	SAMSUNG	K4B1G0846E	-	-	-	-	•	•	•	•
SAMSUNG	M391B2873DZ1-CH9	1GB	SS	SAMSUNG	K4B1G0846D(ECC)	9	-	-	-	•	•	•	•
SAMSUNG	M378B5673DZ1-CH9	2GB	DS	SAMSUNG	K4B1G0846D	9	-	-	-	•	•	•	•
SAMSUNG	M378B5673EH1-CH9	2GB	DS	SAMSUNG	K4B1G0846E	-	-	-	-	•	•	•	•
SAMSUNG	M391B5673DZ1-CH9	2GB	DS	SAMSUNG	K4B1G0846D(ECC)	9	-	-	-	•	•	•	•
SAMSUNG	M378B5273BH1-CH9	4GB	DS	SAMSUNG	K4B2G0846B-HCH9	9	-	-	-	•	•	•	•
Super Talent	W1333UX2G8(XMP)	2GB(2 x 1GB)	SS	-	-	-	-	8	1.8	•	•	•	•
Asint	SLY3128M8-EDJ	1GB	SS	Asint	DDRIII1208-DJ	-	-	-	-	-	-	-	-
Asint	SLY3128M8-EDJE	1GB	SS	ELPIDA	J1108BASE-DJ-E	-	-	-	-	-	-	-	-
Asint	SLZ3128M8-EDJ	2GB	DS	Asint	DDRIII1208-DJ	-	-	-	-	-	-	-	-
Asint	SLZ3128M8-EDJE	2GB	DS	ELPIDA	J1108BASE-DJ-E	-	-	-	-	-	-	-	-
ASUS	N/A	1GB	DS	-	-	-	-	-	-	-	-	-	-
ATP	AQ28M6A48BJ.H9S	1GB	SS	SAMSUNG	K4B1G0846E	-	-	-	-	-	-	-	-
ATP	AQ28M72DBJ.H9S	1GB	SS	SAMSUNG	K4B1G0846D(ECC)	-	-	-	-	-	-	-	-
ATP	AQ56M6A48BJ.H9S	2GB	DS	SAMSUNG	K4B1G0846D	-	-	-	-	-	-	-	-
ATP	AQ56M72EJB.H9S	2GB	DS	SAMSUNG	K4B1G0846D(ECC)	-	-	-	-	-	-	-	-
BUFFALO	FSX1333D3G-1G	1GB	SS	-	-	-	-	-	-	-	-	-	-
BUFFALO	FSH1333D3G-T3G(XMP)	3GB(3 x 1GB)	SS	-	-	-	-	7-7-7-20	-	-	-	-	-
BUFFALO	FSX1333D3G-2G	2GB	DS	-	-	-	-	-	-	-	-	-	-
EK Memory	EKM324L28BP8-H13	4GB(2 x 2GB)	DS	-	-	-	-	9	-	-	-	-	-
Elixir	M2Y2G64CB8HA9N-CG	2GB	DS	-	-	-	-	-	-	-	-	-	-
Elixir	M2Y2G64CB8HC9N-CG	2GB	DS	-	-	-	-	-	-	-	-	-	-
Patriot	PDC32G1333LLK	1GB	SS	PATRIOT	-	7	1.7	-	-	-	-	-	-
Patriot	PVT33G1333ELK	3GB(3 x 1GB)	SS	-	-	-	-	9-9-9-24	1.65	-	-	-	-
Patriot	PVS34G1333ELK	4GB(2 x 2GB)	DS	-	-	-	-	9-9-9-24	1.5	-	-	-	-
Patriot	PVS34G1333LLK	4GB(2 x 2GB)	DS	-	-	-	-	7-7-7-20	1.7	-	-	-	-
Patriot	PVT36G1333ELK	6GB(3 x 2GB)	DS	-	-	-	-	9-9-9-24	1.65	-	-	-	-
Silicon Power	SP001GBLTU1333S01	1GB	SS	NANYA	NT5CB128M8AN-CG	-	-	-	-	-	-	-	-
Silicon Power	SP001GBLTU133S02	1GB	SS	S-POWER	I0YT3E0	9	-	-	-	-	-	-	-
Silicon Power	SP002GBLTU133S02	2GB	DS	S-POWER	I0YT3E0	9	-	-	-	-	-	-	-
UMAX	E41302GPO-73B0B	2GB	DS	UMAX	U2S24030TP-13	-	-	-	-	-	-	-	-



- When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
- It is recommended to install the memory modules from the slots for better overclocking capability.
- The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

DDR3 2000 Qualified Vendors List (QVL)										
	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMG4GX3M2A2000C8(XMP)	4GB(2 x 2GB)	DS	-	-	8-8-8-24	1.65			
Crucial	BL12864BE2009.8SFB3(EPP)	1GB	SS	-	-	9-9-9-28	2			
G.SKILL	F3-16000CL9D-4GBRH(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-24	1.65			
G.SKILL	F3-16000CL9D-4GBTD(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-24	1.65			
G.SKILL	F3-16000CL7T-6GBPS(XMP)	6GB(3 x 2GB)	DS	-	-	7-8-7-20	1.65			
G.SKILL	F3-16000CL9T-6GBPS(XMP)	6GB(3 x 2GB)	DS	-	-	9-9-9-24	1.65	●		
GEIL	GU34GB2000C9DC(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-28	2	●		
GEIL	GU34GB2000C9DC(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-28	1.65	●		
GEIL	GE38GB2000C9QC(XMP)	8GB(4 x 2GB)	DS	-	-	9-9-9-28	1.65			
KINGSTON	KHX2000C8D3T1K3/3GX(XMP)	3GB(3 x 1GB)	SS	-	-	8	1.65	●		
KINGSTON	KHX2000C9D3T1K3/3GX(XMP)	3GB(3 x 1GB)	SS	-	-	9	1.65			
KINGSTON	KHX2000C8D3T1K3/6GX(XMP)	6GB(3 x 2GB)	DS	-	-	8	1.65			
KINGSTON	KHX2000C9D3T1FK3/6GX(XMP)	6GB(3 x 2GB)	DS	-	-	9	1.65	●		
KINGSTON	KHX2000C9D3T1K3/6GX(XMP)	6GB(3 x 2GB)	DS	-	-	9	1.65	●		
OCZ	OCZ3FXT20002GK	2GB(2 x 1GB)	SS	-	-	8	1.9			
OCZ	OCZ3P20002GK(EPP)	2GB(2 x 1GB)	SS	-	-	9	1.9			
OCZ	OCZ3P2000EB2GK	2GB(2 x 1GB)	SS	-	-	9-8-8	1.8			
OCZ	OCZ3B2000LV6GK	6GB(3 x 2GB)	DS	-	-	7-8-7	1.65	●		
OCZ	OCZ3B2000LV6GK	6GB(3 x 2GB)	DS	-	-	7-8-7	1.65	●		
Transcend	TX2000KLU-4GK(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-24	1.65			
Gingle	9CAASS37AZZ01D1	2GB	DS	-	-	9-9-9-24	-			
Patriot	PVS32G2000LLKN	2GB(2 x 1GB)	SS	-	-	9-9-9-24	2			
Patriot	PVT36G2000LLK(XMP)	6GB(3 x 2GB)	DS	-	-	8-8-8-24	1.65			
Team	TXD32048M2000HC9-L(XMP)	2GB	DS	TEAM	-	9-9-9-24	1.64			

4 DIMM Slots

- **1 DIMM**: Supports one module inserted in any slot as Single-channel memory configuration
- **2 DIMM**: Supports one pair of modules inserted into either the blue slots or the black slots as one pair of Dual-channel memory configuration
- **4 DIMM**: Supports 4 modules inserted into both the blue and black slots as two pairs of Dual-channel memory configuration

- When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
- It is recommended to install the memory modules from the slots for better overclocking capability.
- The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

DDR3 2133 Qualified Vendors List (QVL)										
	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
A-DATA	AX3U2133XB2G10-EF(XMP)	4GB(2 x 2GB)	DS	-	-	-	2.05~2.15			
A-DATA	AX3U2133XB2G10-FF(XMP)	6GB(3 x 2GB)	DS	-	-	-	2.05~2.15			
A-DATA	AD32133F002GMU(XMP)	6GB(3 x 2GB)	DS	-	-	-	2.05~2.15			
G.SKILL	F3-17066CL8D-4GBPS(XMP)	4GB(2 x 2GB)	DS	-	-	8-8-8-24	1.65	●		
G.SKILL	F3-17066CL9D-4GBTD(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-24	1.65	●		
G.SKILL	F3-17066CL9T-6GB-T	6GB(3 x 2GB)	DS	-	-	9-9-9-24	1.65	●		
GEIL	GE34GB2133C9DC(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-28	1.65			
GEIL	GU34GB2133C9DC(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-28	1.65			
KINGSTON	KHX2133C8D3T1K2/4GX(XMP)	4GB(2 x 2GB)	DS	-	-	8	1.65	●		
KINGSTON	KHX2133C8D3T1K2/4GX(XMP)	4GB(2 x 2GB)	DS	-	-	8	1.65			
KINGSTON	KHX2133C9D3T1K2/4GX(XMP)	4GB(2 x 2GB)	DS	-	-	9	1.65	●		

4 DIMM Slots

- **1 DIMM**: Supports one module inserted in any slot as Single-channel memory configuration
- **2 DIMM**: Supports one pair of modules inserted into either the blue slots or the black slots as one pair of Dual-channel memory configuration
- **4 DIMM**: Supports 4 modules inserted into both the blue and black slots as two pairs of Dual-channel memory configuration

- When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
- It is recommended to install the memory modules from the slots for better overclocking capability.
- The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.