

Winbond Industrial SpiFlash Memory Selection Guide ¹

Density	Winbond Part # ²	Quad SPI	Clock MHz	Features ³	Voltage	Package ⁴	Sample Availability
512M-bit	W25M512JVxIG/Q	•	104	QPI, Enhanced, DTR	3V	x=(F,E,C ⁶ ,B ⁶)	Q4-2014
256M-bit	W25Q256FVxIG/Q/F	•	80/104	QPI, Enhanced	3V	x=(F,E,C ⁶ ,B ⁶)	Now
	W25Q257FVxIG/Q ⁵	•	80/104	QPI, Enhanced	3V	x=(F,E)	Q1-2014
	W25Q256JVxIG/Q	•	80/104	QPI, Enhanced, DTR	3V	x=(F,E,C ⁶ ,B ⁶)	Q4-2014
128M-bit	W25Q128FVxIG/Q/F	•	104	QPI, Enhanced	3V	x=(S,T ⁶ ,F,P,E,C ⁶ ,B ⁶)	Now
	W25R128FVxIQ	•	104	RPMC, Enhanced	3V	x=(S,T ⁶ ,F ⁶ ,P ⁶)	Now
	W25Q128JVxIG/Q	•	104	QPI, Enhanced, DTR	3V	x=(S,T ⁶ ,F,P,E,C ⁶ ,B ⁶)	Q4-2014
	W25Q128FWxIG	•	104	QPI, Enhanced	1.8V	x=(S,T ⁶ ,F ⁶ ,P)	Now
64M-bit	W25Q64FVxIG/Q/F	•	104	QPI, Enhanced	3V	xx=(SS,ST ⁶ ,SF,ZP,ZE,TC,TB ⁶)	Now
	W25R64FVxIQ	•	104	RPMC, Enhanced	3V	xx=(SS,ST ⁶ ,SF ⁶ ,ZP ⁶)	Now
	W25Q64JVxIG/Q	•	104	QPI, Enhanced, DTR	3V	xx=(SS,ST ⁶ ,SF,ZP,ZE,TC,TB ⁶)	Q3-2014
	W25Q64FWxIG	•	104	QPI, Enhanced	1.8V	xx=(SS,ST ⁶ ,SF ⁶ ,ZP,BY)	Now
32M-bit	W25Q32FVxIG/Q/F	•	104	QPI, Enhanced	3V	xx=(SS,ST ⁶ ,SF,ZP,ZE,TC ⁶ ,TB ⁶)	Now
	W25Q32JVxIG/Q	•	104	QPI, Enhanced, DTR	3V	xx=(SS,ST ⁶ ,SF,ZP,ZE,TC ⁶ ,TB ⁶)	Q3-2014
	W25Q32DWxIG	•	104	QPI, Enhanced	1.8V	xx=(SS,ST ⁶ ,SF ⁶ ,ZP,ZE ⁶)	Now
	W25Q32FWxIG	•	104	QPI, Enhanced	1.8V	xx=(SS,ST ⁶ ,SF ⁶ ,ZP,ZE ⁶ ,XG)	Q1-2014
16M-bit	W25Q16DVxIG/Q	•	80/104	Enhanced	3V	xx=(SN,SV ⁶ ,SS,ST ⁶ ,ZP,TC ⁶ ,TB ⁶)	Now
	W25Q16CLxIG	•	50/80	Enhanced	2.5V/3V	xx=(SN,SV ⁶ ,SS,ZP)	Now
	W25Q16DWxIG	•	104	QPI, Enhanced	1.8V	xx=(SN,SV ⁶ ,SS,ST ⁶ ,SF ⁶ ,ZP,TC ⁶ ,TB ⁶ ,UU,BY ⁶)	Now
	W25Q16FWxIG	•	104	QPI, Enhanced	1.8V	xx=(SN,SV ⁶ ,SS,ST ⁶ ,SF ⁶ ,ZP,TC ⁶ ,TB ⁶ ,UU,BY ⁶)	Q3-2014
8M-bit	W25Q80BVxIG	•	80/104	Fast Write, Enhanced	3V	xx=(SN,SS,ZP,UX)	Use W25Q80DV
	W25Q80DVxIG	•	80/104	Fast Write, Enhanced	3V	xx=(SN,SV,SS,ZP,UX)	Now
	W25Q80BLxIG	•	50/80	Fast Write, Enhanced	2.5V	xx=(SN,SV,SS,ZP,UX)	Now
	W25Q80DLxIG	•	80/104	Fast Write, Enhanced	2.5V	xx=(SN,SV,SS,ZP,UX)	Q2-2014
	W25Q80BWxIG ⁷	•	80	Fast Write, Enhanced	1.8V	xx=(SN,SV,SS,ZP,UU ⁶ ,BY ⁶)	Now
	W25Q80EWxIG	•	80	Fast Write, Enhanced	1.8V	xx=(SN,SV,SS,ZP,UU ⁶ ,BY ⁶)	Q4-2014
4M-bit	W25X40CLxIG		80/104	Fast Write	2.5V/3V	xx=(SN,SV,SS,ZP,UX)	Now
	W25Q40CLxIG	•	104	Fast Write, Enhanced	2.5V/3V	xx=(SN,SS,UX ⁶)	Now
	W25Q40BWxIG	•	80	Fast Write, Enhanced	1.8V	xx=(SN,SV,SS ⁶ ,ZP,UX,UU ⁶)	Now
	W25Q40EWxIG	•	80	Fast Write, Enhanced	1.8V	xx=(SN,SV,SS ⁶ ,ZP,UX,UU ⁶)	Q4-2014
2M-bit	W25X20CLxIG		80/104	Fast Write	2.5V/3V	xx=(SN,SV,ZP,UX)	Now
	W25Q20CLxIG	•	80/104	Fast Write	2.5V/3V	xx=(SN,SV,ZP,UX)	Now
	W25Q20BWxIG	•	80	Fast Write, Enhanced	1.8V	xx=(SN,SV,ZP,UX ⁶)	Now
	W25Q20EWxIG	•	80	Fast Write, Enhanced	1.8V	xx=(SN,SV,ZP,UX ⁶)	Q2-2014
1M-bit	W25X10CLxIG		80/104	Fast Write	2.5V/3V	xx=(SN,SV ⁶ ,ZP ⁶ ,UX)	Now
	W25Q10EWxIG	•	80/104	Fast Write, Enhanced	1.8V	xx=(SN,SV ⁶ ,ZP ⁶ ,UX)	Q2-2014
512K-bit	W25X05CLxIG		80/104	Fast Write	2.5V/3V	xx=(SN,SD ⁶ ,UX)	Now

1. See data sheet for further technical information. This is subject to change without notice. 2. At the end of the part number, letter "G" represents "Green", Halogen Free and RoHS compliant packaging; letter "Q" represents Green packaging and Quad Enabled as shipping default & fast sector erase time (tSE); letter "F" represents Fast Sector Erase time (tSE); letter "I" represents Industrial Temperature (-40°C to +85°C). 3. Enhanced=SFDP¹, Security Registers, Program/Erase Suspend/Resume, Burst Read with Wrap, Non-Volatile & Volatile Status Registers, Complement Array Protection. 4. SN=SO8 150mil, SV=VSOP8 150mil, SS or S=SO8 208mil, ST or T=VSOP8 208mil, SF or F=SO16 300mil, SD=TSSOP8 173mil, ZP or P=WSON8 6x5mm, ZE or E=WSON8 8x6mm, TC or C=TFBGA24 8x6mm (4x6 Matrix), TB or B=TFBGA24 8x6mm (5x5 Matrix), UX=USON8 2x3mm, UU=USON8 4x3mm, XG=XSON8 4x4mm, BY=WLPGA. KGD Wafer available. 5. Default 4-byte addressing for W25W257FV. 6. Special Order. 7. Contact Winbond for Suspend/Resume feature support on W25Q80BW.



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