



SL2610 Product Line Qualified Component List

PN: 538-000679-01 Rev B

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1. Introduction

This document lists the qualified components for Synaptics' SL2610 Product Line. It includes the following lists:

- PMIC QVL
- DDR4 QVL
- LPDDR4(x) QVL
- DDR3L QVL
- eMMC QVL
- XSPI-NOR QVL

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2. Qualified Component Lists

The recommended PMIC for the core power rail can differ depending on the project. Customers should assess the core's current consumption under worst-case operating conditions and select a PMIC with appropriate output current capability

Table 1. PMIC QVL

Item	Mfg	Part Number	I _{max} (A)	RDS (mOhm)	Adjustable Step (mV)	Default Vout (V)	Switch Frequency (MHz)	Efficiency	Type Interface	Package
1	Silegy	SY8827N	6	28	12.5	0.8	2.4	85%@0.8V,6A	I2C	CSP-20

Note: Validated with the Synaptics SoC using the Synaptics 4-layer reference design. Board-specific DDR tuning, and validation are required if the customer layout differs from the Synaptics reference PCB.

Table 2. DDR4 QVL

Item	Mfg	Part Number	Capacity	Width	Device DDR Type - Speed	Qualified DDR Type - Speed
1	Micron	MT40A2G8SA-062E IT:F	16Gb	x8	DDR4-3200	DDR4-3200
2	Etron	EM6OG08NWALB-62H	16Gb	x8	DDR4-3200	DDR4-3200
3	Micron	MT40A2G8SA-062E:F	16Gb	x8	DDR4-3200	DDR4-3200
4	SK Hynix	H5AG48DXNDX116N	16Gb	x8	DDR4-3200	DDR4-3200

Table 3. LPDDR4(x) QVL

Item	Mfg	Part Number	Capacity	Width	Device DDR Type - Speed	Qualified DDR Type - Speed
1	Micro	MT53E1G16D1ZW-046 AIT:C	16Gb	x16	LPDDR4x-3733	LPDDR4x-3733

Table 4. DDR3L QVL

Item	Mfg	Part Number	Capacity	Width	Device DDR Type - Speed	Qualified DDR Type - Speed
1	Nanya	NT5CC512M8EQ-EK	4Gb	x8	DDR3(L)-1866	DDR3L-1866

Table 5. eMMC QVL

Item	Mfg	Part Number	Capacity
1	Micron	MTFC32GBCAQTC-IT	32GB

Note: SL2610 requires eMMC's RPMB feature for security storage functions. The eMMC devices in Table 5 are verified with SL2610, with RPMB feature included.

Table 6. XSPI_NOR QVL

Item	Mfg	Part Number	Capacity	Width	Device-Speed	Qualified-Speed
1	Winbond	W25Q128JWPM	128Mb	4-bit	133 MHz	50 MHz
2	GigaDevice	GD25LQ128EWIGR	128Mb	4-bit	120 MHz	50 MHz
3	ISSI	IS25WJ128F-JKLE	128Mb	4-bit	133 MHz	50 MHz
4	ISSI	IS25WP256D-JLLE	256Mb	4-bit	133 MHz	50 MHz

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3. Revision History

Revision	Description
A	Initial release.
B	Updated Table 6. XSPI_NOR QVL.

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