



Product Overview

NV25020LV: EEPROM Serial 2-Kb SPI - Automotive Grade 1 (+125°C)

For complete documentation, see the data sheet.

NV25020LV is 2-Kb Serial CMOS EEPROM Automotive grade device internally organized as 256x8 bits. It features a 16-byte page write buffer and support the Serial Peripheral Interface (SPI) protocol. The device is enabled through a Chip Select (CS) input. In addition, the required bus signals are clock input (SCK), data input (SI) and data output (SO) lines. The HOLD input may be used to pause any serial communication with the NV250x0LV device. The device features software and hardware write protection, including partial as well as full array protection. Byte Level On-Chip ECC (Error Correction Code) makes the device suitable for high reliability applications. The device offers an additional Identification Page which can be permanently write protected.

Features

- Automotive Temperatures Grade1: -40°C to +125°C/VCC = 1.7 V to 5.5 V
- SOIC-8, US-8, TSSOP 8-Lead and Wettable Flank UDFN 8-pad Packages
- 20/ 10 MHz SPI Compatible
- SPI Modes (0,0) & (1,1)
- 16-byte Page Write Buffer
- Self-timed Write Cycle
- Hardware and Software Protection
- Block Write Protection - Protect ¼, ½ or Entire EEPROM Array
- Low Power CMOS Technology
- 200 Year Data Retention

For more features, see the data sheet

Benefits

- Allows the use in safety critical application
- Space-Efficient Packaging

Applications

- Door module
- Body computer & energy management unit
- Immobilizer unit
- Wiper module
- Park assist unit

Part Electrical Specifications																
Product	Pricing (\$/Unit)	Compliance	Status	Type	Density	Organization	Data Transmission Standard	f _{cycle} Max (kHz)	t _{ACC} Max ns	V _{CC} Min (V)	V _{CC} Max (V)	I _{standby} Max (µA)	I _{act} Max (mA)	T Min (°C)	T Max (°C)	Package Type
NV25020DTVLT3G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	2 kb	256k x 8	SPI	20000	75	1.7	5.5	5	3	-40	125	TSSOP-8
NV25020DWVLT3G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	2 kb	256k x 8	SPI	20000	75	1.7	5.5	5	3	-40	125	SOIC-8
NV25020UVLT2G		AEC Qualified PPAP Capable Pb-free Halide free	Product Preview													US8

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