

MLX16201 Intelligent HV automotive relay driver (ROM-Version)

Subcribe to Product (includes all related assets)

The MLX16201 is a multiple purpose intelligent relay driver ASIC designed for automotive applications. It uses the RX16000-16 Bit parallel μ C of Melexis. Integrated analog and digital features allow ease of design for various automotive applications using minimal external components. 10 different interrupts allow real time events, 4 of which are accessible via the extrnal pins. The circuit is load-dump protected for a 80V load dump pulse.

Availability:

The MLX16201 is in production.

Features and Benefits

- WORD(16 Bit), BYTE(8 Bit), and BIT(1Bit) Operations possible
- 11 different user interrupt sources (including RESET)
- 8k*8 user ROM
- 256*8 RAM
- 128*16 EEPROM
- 1 On-Chip-Timer
- 1 Timer-Capture-Register (16 bits)
- 2 Timer-Compare-Register (16 bits)
- Window Watchdog (5ms/10ms)
- 1 PWM output 20.8 kHz, 7-Bit +1 (duty cycle from 0 to 100%)
- 1 A/D converter (8 bits, 16µs) internal and external reference possible
- 8 ADC-channels analogue multiplexer
- On-Chip Temperature Sensor
- 2 Relay driver outputs, integrated free wheel function
- 2 voltage outputs for driving external circuitry
- 8 bi-directional ports with different possible thresholds, 5V output function
- 2 Interrupt inputs for timer capture
- On-Chip 8-MHz Oscillator (No external components)
- 4V to 26V voltage range, 80V load dump protected,
- Typical 150 μA sleep mode current
- Small SO20 package
- Development Environment available:
- * MLX10108 OTP version in SO24, pin- and parameter compatible for SW trials
- * RX16000 CPU-Simulator
- * Assembler, Linker, Object-File-, HEX-File-Generator
- * C-Compiler, distributed by COSMIC
- * Melexis Emulator E-MLX, which contains:
- ROM-Emulator
- In-Circuit-Emulator
- * Emulator board
- * Demo application board incl. Demo SW
- * OTP programmer incl. MLX10108 interface board

MLX16201 Assets

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