

Product Overview

FXL6408: Fully Configurable 8-Bit I²C-Controlled GPIO Expander

For complete documentation, see the data sheet.

The FXL6408 is an 8-bit I²C-controlled GPIO expander. When configured in Input Mode, the FXL6408 monitors the input ports for data transitions and signals the baseband by asserting the /INT pin. The input default values can be programmed independently, allowing customized input detection. All inputs can be configured with pull-up or pull-down resistors to pre-bias the inputs in open-drain or non-driven applications. When configured in Output Mode, the GPIO pins are capable of delivering 6 mA output drive according to the I²C register set. The FXL6408 is designed to allow voltage translation from levels as low as 1.65 V and up to 4.0 V. The FXL6408 features an active LOW RESET input as well as Power-On Reset (POR) circuit and I²C software reset options.

Features

- 4X Expansion of Connected Processor I/O Ports
- Fully Integrated I²C Slave
- 8 Independently Configurable I/O Ports
- Low-Power Quiescent Current: 1.5 μ A
- Voltage Translation Capable from 1.65 V I²C Port Up to 4.0 V GPIO Pins
- Selectable Device Address
- 6 mA Output Drive
- Interrupt Pin to Alert Processor of Status Changes

Applications

- This product is general usage and suitable for many different applications.

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	I/O	Cascadable	V _{CC} Min (V)	V _{CC} Max (V)	Interrupt Output	I/O Pullups	LED Blink/PWM	I _O Min (mA)	Package Type
FXL6408UMX	0.491	Pb-free Halide free non AEC-Q and PPAP	Active	8	8 Slave ID Address	1.65	4	Yes	No	No	6	UQFN-16

For more information please contact your local sales support at www.onsemi.com.

Created on: 10/23/2021