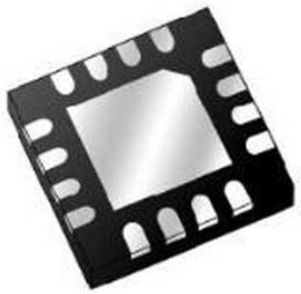
FXL2SD106BQX

Data Sheet

Low Voltage Dual Supply 6-Bit SD Memory Card Interface voltage Translator; Package: DQFN; No of Pins: 16; Container: Tape & Reel,Translation - Voltage Levels Dual supply SD voltage translator

Manufacturers	ON Semiconductor, LLC
Package/Case	QFN-16
Product Type	Logic ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for FXL2SD106BQX or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

The FXL2SD106 is a configurable dual-voltage-supply translator designed for both uni-directional and bidirectional voltage translation between two logic levels. The device allows translation between voltages as high as 3.6V to as low as 1.1V. The A port tracks the VCCA level and the B port tracks the VCCB level. This allows for bi-directional voltage translation over a variety of voltage levels: 1.2V, 1.5V, 1.8V, 2.5V, and 3.3V.The device remains in 3-state until both VCC reach active levels, allowing either VCC to be powered-up first. Internal power-down control circuits place the device in 3-state if either VCC is removed. The OE input, when low, disables both A and B ports by placing them in a 3-state condition. The FXL2SD106 is designed so that OE and CLK IN are supplied by VCCA. The device senses an input signal on A or B port automatically. The input signal is transferred to the other port. The FXL2SD106 is not designed for SD card applications. The internal bus hold circuitry conflicts with pull-up resistors. SD cards have internal pull-up resistors on the CD/DAT3 pins.

Features

Bi-Directional Interface between Two Levels: 1.1V and 3.6V

Fully Configurable: Inputs and Outputs Track VCC Level

Non-Preferential Power-up; Either VCC May Be Powered-up First

Outputs Remain in 3-State until Active VCC Level is Reached

Outputs Switch to 3-State if Either VCC is at GND

Power-Off Protection

Bus HOLD on Data Inputs Eliminates Need for Pullup Resistors (Do NOT Use Resistors on the A or B Ports)

OE and CLK IN are Referenced to VCCA Voltage

Packaged in 16-Terminal DQFN (2.5mm x 3.5mm)

Direction Control Not Needed

80Mbps Throughput Translating between 1.8V and 2.5V

ESD Protection Exceeds:

12kV HBM (B port I/O to GND) (per JESD22-A114 & Mil Std 883e 3015.7)

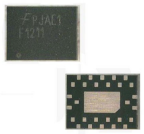
8kV HBM (A port I/O to GND) (per JESD22-A114 & Mil Std 883e 3015.7)

1kV CDM (per ESD STM 5.3)

Application

ONSEMI

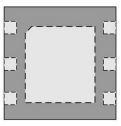
Related Products



FXMAR2102UMX

ON Semiconductor, LLC

UMLP-8



FXL4TD245UMX

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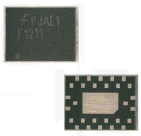
UMLP-16

FXWA9306L8X

ON Semiconductor, LLC

MicroPak-8



FXMA2104UMX

ON Semiconductor, LLC

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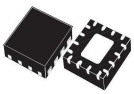

FXLP4555MPX

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FXLA108BQX

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FXLA104UM12X

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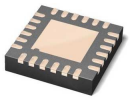
12-UFQFN



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ON Semiconductor, LLC

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