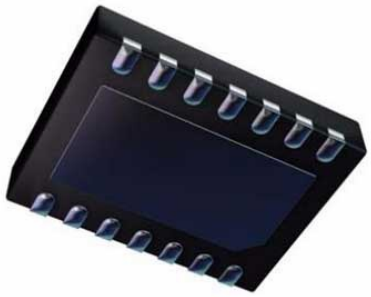
MCP2517FD-H/JHA

Data Sheet

CAN Controller 8Mbit/s CAN 2.0B, 14-Pin VDFN

Manufacturers	Microchip Technology, Inc
Package/Case	VDFN-14
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MCP2517FD-H/JHA or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The MCP2517FD is a cost-effective and small-footprint External CAN FDController that can be easily added to a microcontroller with an available SPIinterface. Therefore, a CAN FD channel can be easily added to amicrocontroller that is either lacking a CAN FD peripheral or that doesn't haveenough CAN FD channels.

The MCP2517FD supports both CAN frames in the Classical format (CAN 2.0B)and CAN Flexible Data Rate (CAN FD) format as specified in ISO11898-1:2015.

Please see our MikroElektronika click Board! https://shop.mikroe.com/mcp2517fd-click

Not recommended for new designs. Consider using the pin- and functionally compatible MCP2518FD

Please consider this deviceMCP2518FD

Features

Conforms to ISO11898-1:2015

Supports both CAN 2.0B and CAN FD

Arbitration Bit Rate up to 1 Mbps

Data Bit Rate up to 8 Mbps

Up to 20MHz SPI Clock Speed

Flexible FIFO setup

31 FIFOs configurable as transmit or receive

32 Flexible Filter and Mask Objects

One Transmit Queue

Misc

32-bit Time Stamp

Bus Health Diagnostics and Error Counters

Packages: VDFN14 (Wettable Flanks), SOIC14

Temperature Range: -40°C to +150°C

Low power consumption

VDD: 2.7V-5.5V

Active Current Max: 12mA @ 5.5V, 40 MHz CAN Clock

Sleep Current: 10uA, Typical

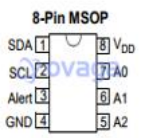
Built-In Safety features

Loopback mode

SPI commands with CRC to detect noise on SPI interface

ECC for the SRAM 1 bit correction, 2 bit detection

Related Products



[MCP9808T-E/MS](#)

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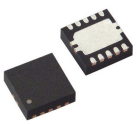
MSOP-8



[ATSAMC21G17A-MZTVAO](#)

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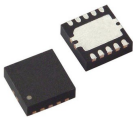
VQFN



[MCP16502TAC-E/S8B]

Microchip Technology, Inc

VQFN

[MCP16362T-E/NMX]

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VDFN

[BM64SPKS1MC1-00M2AA]

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SMD

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SOIC-14

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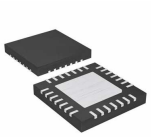
SOIC-14



[MCP25625-E/ML]

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