

## Digital Isolator CMOS 4-CH 2Mbps 16-Pin QSOP Tube

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** QSOP-16

**Product Type:** Drivers

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active



Images are for reference only

[Inquiry](#)

### General Description

The ADuM1441 is a micropower, 4-channel digital isolator which has default high output and 3/1 channel directionality based on the Analog Devices, Inc., iCoupler® technology. (Dual-channel products available). Combining high speed, complementary metal oxide semiconductor (CMOS) and monolithic air core transformer technologies, these isolation components provide outstanding performance characteristics superior to the alternatives, such as optocoupler devices, while requiring the lowest power of any available isolation product. The ENX signals can be used to disable the internal refresh, which lowers the total quiescent current to less than 1  $\mu$ A.

The ADuM1440/ADuM1441/ADuM1442/ADuM1445/ ADuM1446/ADuM1447 family of quad 2.5 kV digital isolation devices are packaged in a small 16-lead QSOP and 20-lead SSOP. While most 4-channel isolators come in 16-lead wide SOIC packages, the ADuM1440/ ADuM1441/ ADuM1442/ ADuM1445/ ADuM1446/ ADuM1447 frees almost 70% of board space and yet can still withstand high isolation voltages and meet regulatory requirements, such as UL and CSA standards (pending). In addition to the space savings, the ADuM1440/ ADuM1441/ ADuM1442/ ADuM1445/ ADuM1446/ ADuM1447 operates with supplies as low as 2.25 V.

Despite the low power consumption, all models of the ADuM1440/ ADuM1441/ADuM1442/ADuM1445/ADuM1446/ADuM1447 provide low, pulse width distortion <8 ns. In addition, every model has an input glitch filter to protect against extraneous noise disturbances.

### Key Features

Ultra-low power operation

Bidirectional communication

Up to 2Mbps data rate (NRZ)

>25kV/ $\mu$ s High common-mode transient immunity

### Application

Power Management, Automation & Process Control

### Recommended For You

**ADM3490EARZ**

Analog Devices, Inc  
SOP-8

**ADuM3160BRWZ-RL**

Analog Devices, Inc  
SOP16

**ADMB232EARUZ**

Analog Devices, Inc  
TSSOP-16

**ADuM5211ARSZ**

Analog Devices, Inc  
SSOP20

**ADuMI201BRZ-RL7**

Analog Devices, Inc  
SOP8

**ADV7623BSTZ**

Analog Devices, Inc  
LQFP144

**ADuMI410BRWZ**

Analog Devices, Inc  
SOP16

**AD698APZ**

Analog Devices, Inc  
PLCC28

**ADMB251EARWZ**

Analog Devices, Inc  
SOP20

**ADM485ANZ**

Analog Devices, Inc  
DIP

**ADuM6400ARWZ**

Analog Devices, Inc  
SOP16

**ADuMI281BRZ**

Analog Devices, Inc  
SOP8

**ADUMI42E0BRZ**

Analog Devices, Inc  
SOP-16

**ADuMI412BRWZ**

Analog Devices, Inc  
SOP16

**ADV7622BSTZ**

Analog Devices, Inc  
TQFP144