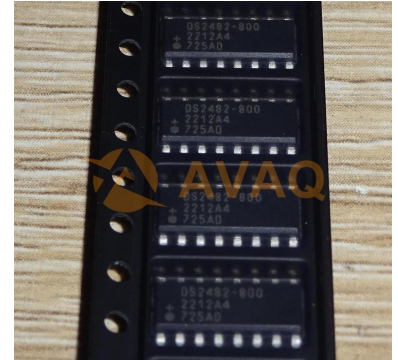


## Smart Interface Controller Serial Interface 3.3V/5V 16-Pin SOIC N T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Maxim Integrated](#)

**Package/Case:** SOP-16

**Product Type:** Drivers

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The DS2482-800 is an I2C to 1-Wire bridge device that interfaces directly to standard (100kHz max) or fast (400kHz max) I2C masters to perform bi-directional protocol conversion between the I2C master and any downstream 1-Wire slave devices. Relative to any attached 1-Wire slave device, the DS2482-800 is a 1-Wire master. Internal factory-trimmed timers relieve the system host processor from generating time-critical 1-Wire waveforms, supporting both standard and Overdrive 1-Wire communication speeds. To optimize 1-Wire waveform generation, the DS2482-800 performs slew-rate control on rising and falling 1-Wire edges and has a programmable feature to mask the fast presence pulse edge that some 1-Wire slave devices can generate. Programmable strong pullup features support 1-Wire power delivery to 1-Wire devices such as EEPROMs and sensors. The DS2482-800 combines these features with eight independent 1-Wire I/O channels. The I2C slave address assignment is controlled by three binary address inputs, resolving potential conflicts with other I2C slave devices in the system.

### Key Features

- Allows Easy Interface Between an I
- 2
- C Micro Port and a 1-Wire Slave
- 2
- C Host Interface Supports 100kHz and 400kHz I
- 2
- C Communication Speeds
- 2
- C Address Assignment
- Slew-Controlled 1-Wire Edges
- PCTLZ Output to Optionally Control an External MOSFET for Stronger Pullup Requirements

### Application

- Central Office Switches
- Medical Clinical Diagnostic Equipment
- PBXs
- Rack-Based Servers
- Wireless Base Stations



## Recommended For You

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### **DS21T07E**

Maxim Integrated

TSSOP20

### **DS21455+**

Maxim Integrated

BGA

### **DS21348T+**

Maxim Integrated

TQFP44

### **DS2155L**

Maxim Integrated

QFP

### **DS8023-RJX+T&R**

Maxim Integrated

TSSOP28

### **DS21S07AE**

Maxim Integrated

TSSOP20

### **DS2108S**

Maxim Integrated

SOP24

### **DS21352L**

Maxim Integrated

QFP

### **DS21T07S**

Maxim Integrated

SOP

### **DS2482S-100+**

Maxim Integrated

SOP8

### **DS8500-JND+**

Maxim Integrated

TQFN-20

### **DS21348TN+**

Maxim Integrated

TQFP44

### **DS2485Q+T**

Maxim Integrated

SMDSMT

### **DS2118MB**

Maxim Integrated

SOP

### **DS2482S-100+T&R**

Maxim Integrated

SOP8