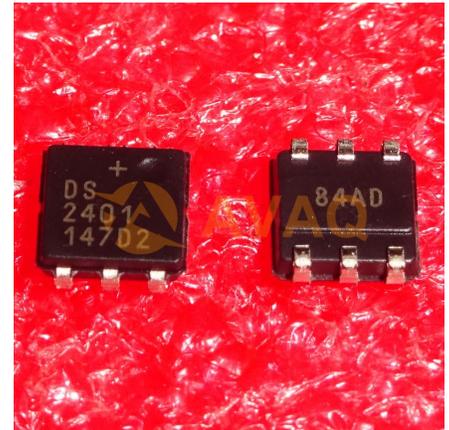


## Silicon Serial Number 6-Pin TSOC T/R

<b>Manufacturer:</b>	<u>Maxim Integrated</u>
<b>Package/Case:</b>	TSOC-6
<b>Product Type:</b>	Memory
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

## General Description

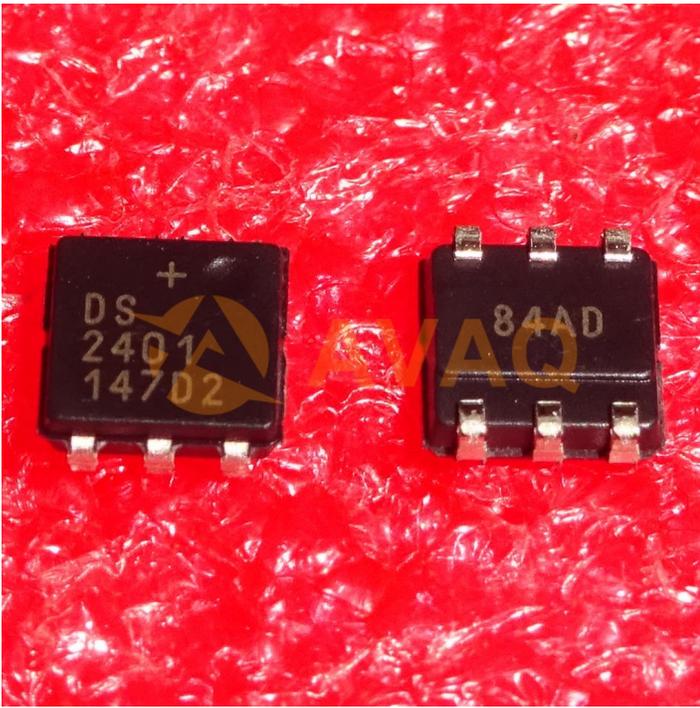
The DS2401 enhanced Silicon Serial Number is a low-cost, electronic registration number that provides an absolutely unique identity which can be determined with a minimal electronic interface (typically, a single port pin of a microcontroller). The DS2401 consists of a factory-lasered, 64-bit ROM that includes a unique 48-bit serial number, an 8-bit CRC, and an 8-bit Family Code (01h). Data is transferred serially via the 1-Wire protocol that requires only a single data lead and a ground return. Power for reading and writing the device is derived from the data line itself with no need for an external power source. The DS2401 is an upgrade to the DS2400. The DS2401 is fully reverse-compatible with the DS2400 but provides the additional multi-drop capability that enables many devices to reside on a single data line. The familiar TO-92, SOT-223 or TSOC package provides a compact enclosure that allows standard assembly equipment to handle the device easily.

## Key Features

- Pull-up voltage range is 2.8V to 6V
- Operating temperature range from -40°C to 85°C
- Unique 64bit ROM ID chip for absolute traceability and zero standby power required
- 8bit family code specifies DS2401 communication requirements to reader
- Minimalist 1-wire interface lowers cost and interface complexity
- Multiple DS2401 devices can reside on common 1-wire net, 15µs release time and 1µs recovery time
- Built-in multidrop controller ensures compatibility with other 1-wire net products
- Reduces control, address, data and power to a single pin and communicates at up to 16.3Kbps
- Presence pulse acknowledges when the reader first applies voltage
- Wide voltage and temperature operating ranges enables robust system performance

## Application

- Equipment Registration
- Network-Node Identification
- PCB Identification
- Reference Design License Management



## Recommended For You

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### DS1990A-F5+

Maxim Integrated

BUTTON

### DS1990A-F5

Maxim Integrated

BUTTON

### DS28C36Q+T

Maxim Integrated

TDFN-6

### DS1990R-F3#

Maxim Integrated

SMDSMT

### DS2411P+

Maxim Integrated

TSOC6

### DS2401P+

Maxim Integrated

TSOC-6

### DS2411P

Maxim Integrated

TSOC6

### DS2411R+T&R

Maxim Integrated

SOT23-3

### DS28E25+

Maxim Integrated

SOJ6

### DS2411R+U

Maxim Integrated

SOT-23

### DS1990A-F3

Maxim Integrated

CAN

### DS28E36Q+T

Maxim Integrated

DFN-6

### DS28E36BQ+T

Maxim Integrated

TDFN-6

### DS28EL22Q+U

Maxim Integrated

SMDSMT

### DS2477Q+T

Maxim Integrated

TDFN