

Serial Number *i*Button

General Description

The DS1990A serial number *i*Button® is a rugged data carrier that serves as an electronic registration number for automatic identification. Data is transferred serially through the 1-Wire® protocol, which requires only a single data lead and a ground return. Every DS1990A is factory lasered with a guaranteed unique 64-bit registration number that allows for absolute traceability. The durable stainless-steel *i*Button package is highly resistant to environmental hazards such as dirt, moisture, and shock. Its compact coin-shaped profile is self-aligning with mating receptacles, allowing the DS1990A to be used easily by human operators. Accessories enable the DS1990A *i*Button to be mounted on almost any object, including containers, pallets, and bags.

Applications

Access Control
Work-In-Progress Tracking
Tool Management
Inventory Control

PART	TEMP RANGE	PIN-PACKAGE
DS1990A-F5+	-40°C to +85°C	F5 <i>i</i> Button
DS1990A-F3+	-40°C to +85°C	F3 <i>i</i> Button

+Denotes a lead(Pb)-free/RoHS-compliant package.

Examples of Accessories

PART	ACCESSORY
DS9096P	Self-Stick Adhesive Pad
DS9101	Multipurpose Clip
DS9093RA	Mounting Lock Ring
DS9093A	Snap-In Fob
DS9092	<i>i</i> Button Probe

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For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim's website at www.maximintegrated.com.

Features

- ◆ Can Be Read in Less Than 5ms
- ◆ Operating Range: 2.8V to 6.0V, -40°C to +85°C

Common *i*Button Features

- ◆ Unique Factory-Lasered 64-Bit Registration Number Ensures Error-Free Device Selection and Absolute Traceability Because No Two Parts are Alike
- ◆ Built-In Multidrop Controller for 1-Wire Net
- ◆ Digital Identification by Momentary Contact
- ◆ Data Can Be Accessed While Affixed to Object
- ◆ Economically Communicates to Bus Master with a Single Digital Signal at 16.3kbps
- ◆ Button Shape is Self-Aligning with Cup-Shaped Probes
- ◆ Durable Stainless-Steel Case Engraved with Registration Number Withstands Harsh Environments
- ◆ Easily Affixed with Self-Stick Adhesive Backing, Latched by its Flange, or Locked with a Ring Pressed Onto its Rim

Pin Configurations

