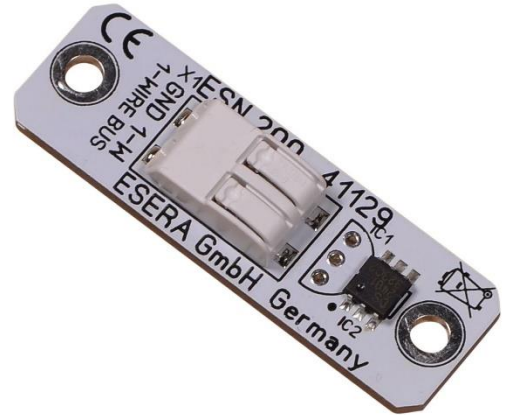




ESN 200 SECURITY SERIAL NUMBER MODULE

for Industry 4.0 and IoT applications

Art. No. 41129



PRODUCT DESCRIPTION

The benefits of the ESERA 1-Wire Serial Number Module 41129 extend far beyond simple product identification. Here are some of the outstanding benefits and applications in detail:

ADVANTAGES

- **Security:** Unique 64-bit serial numbers and robust security features protect your products from counterfeiting and tampering.
- **Traceability:** Track the lifecycle of your products from manufacture to disposal, essential for quality and production management.
- **Compliance:** Easily meet industry regulations and requirements and provide evidence for your products.
- **Increase efficiency:** Automate processes for a significant increase in production efficiency and cost savings.

APPLICATIONS

- **Tool identification:** Ensure proper tracking and maintenance of tools and equipment.
- **Machine management:** Clearly identify machines and create maintenance plans to increase availability.
- **Battery and accumulator management:** Ideal for identifying and monitoring batteries and accumulators in renewable energy systems and electric vehicles.
- **Supply Chain Management:** Optimize your supply chain and ensure the authenticity of your products during transport.

The ESERA Serial Number Module 41129 with Maxim DS2401 Serial Number Chip is the ideal solution to meet the needs of modern industry. From security and traceability to increased efficiency and compliance, this module offers numerous benefits and applications that can take your business to the next level.

HIGHLIGHTS

Unique 64-bit serial numbers for product protection

High security chip from Maxim
robust against counterfeiting

Easy to integrate or attach to products

Energy efficient due to extremely low power consumption

1-Wire DS2401 chip from Maxim/Analog Devices

Simple voltage supply
Supply 2.8 - 6VDC

Compatible with ESERA Plug and Play System

Easy assembly, through 2-pin Push In terminal

Extended temperature range
-5°C to 50°C

Rugged industrial design

High ESD protection for harsh environments



EQUIPMENT OPTIONS

- Painted electronics (conformal coating) for high operational reliability under permanent high or highly fluctuating humidity conditions.
- Customization and branding possible

KEY FEATURES

Feature	<ul style="list-style-type: none"> • Unique 64-bit serial numbers in chip • Intended for harsh environments • Small and light
Data interface	1-Wire bus system
Chip specification	DS2401 of the manufacturer Maxim/Analog Devices
Protocol	ESERA ASCII text, Modbus TCP and MQTT protocol
Security	Guaranteed unique 64-bit ROM ID chip for absolute traceability Unique, 64-bit registration number 8-bit family code + 48-bit serial number + 8-bit CRC)
Auto-E-Connect Support	Compatible with ESERA Plug and Play System, Auto-E-Connect
Further information	Datasheet DS2401 Silicon Serial Number of the manufacturer Maxim/Analog Devices
Power supply, current consumption	2.8 - 6VDC, typical 5µA
Connection	Push In terminals with WAGO terminals for stranded wire and wire up to 0,5qmm
Dimensions	41.5 x 13 x 6.1mm (LxWxH), Mounting hole spacing 35mm with 3mm diameter
PCB Color	white
Protection class	IP00 / III
Carrier material	PCB FR4 1.6mm
Temperature, humidity, operation	Industrial temperature range, Range -40°C to 85°C, 10-92%, non-condensing

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