



## Device Authentication IC

# PLUTO RS1111

### Specification

- Challenge-response Based Authentication
- Light-weight Crypto Engine
- 512bit EEPROM Storage
- Single-wire Bus Interface
- 2.6V~4.8V Wide Operating Voltage
- True 'Zero Power' Sleep Mode
- 8-lead TDFN Package Type

### Features

- Challenge-response Based Authentication
- Light-weight Crypto Engine
  - Symmetric HIGHT Algorithm [128bit]
- 512bit EEPROM Storage
  - 3Sets of 128bit Host Selectable Secret Code
  - 112bit Additional Memory for ID Code
- Wide Operating Voltage Range
  - 2.6V~4.8V
- Interface
  - Single-wire Bus Interface
  - UART or GPIO
  - 23Kbps
- Power Management
  - True 'Zero Power' Sleep Mode
- Package Size
  - 2mm x 3mm, 0.5T
- Pb-free [RoHS Compliant]

### Benefit

- Cost Effectiveness
- Wide Operating Voltage Range
- Ultra Thin DFN Package
- Low Power Consumption Trough True 'Zero Power'
- Sleep Mode



### Applications

- Battery Pack Authentication
- Printer Cartridges
- Add-on Accessories
- Handle Devices



Battery Pack



Board Copy Protection



IC Socket Board

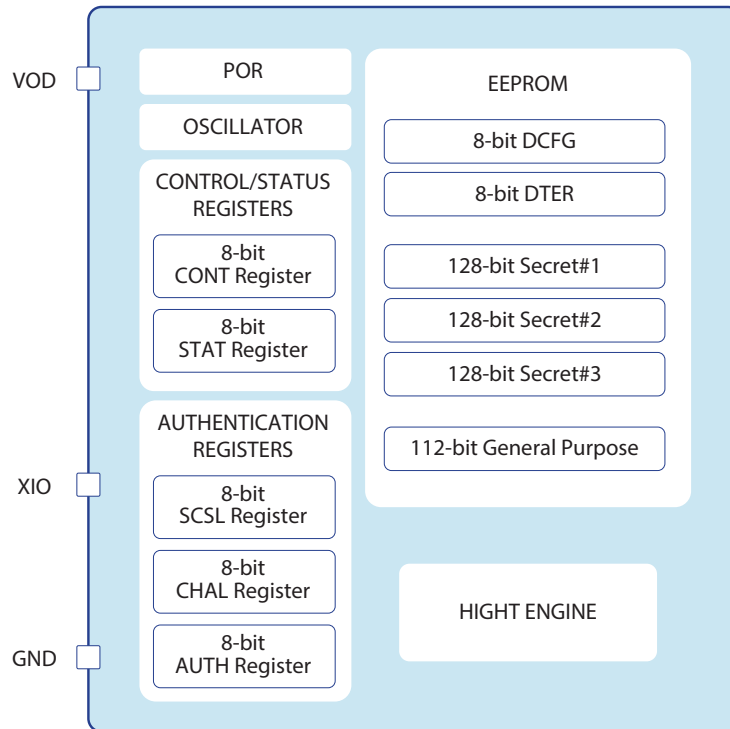


EVM Kit

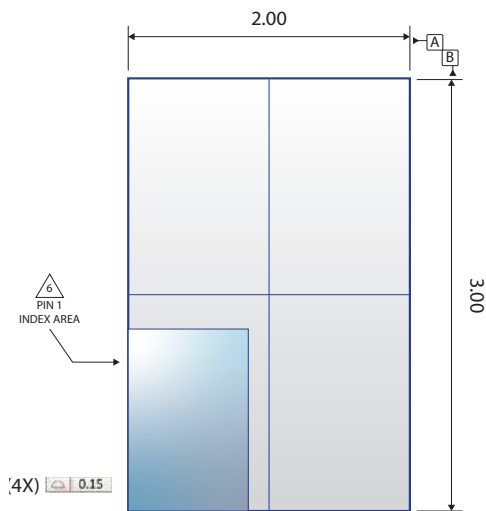
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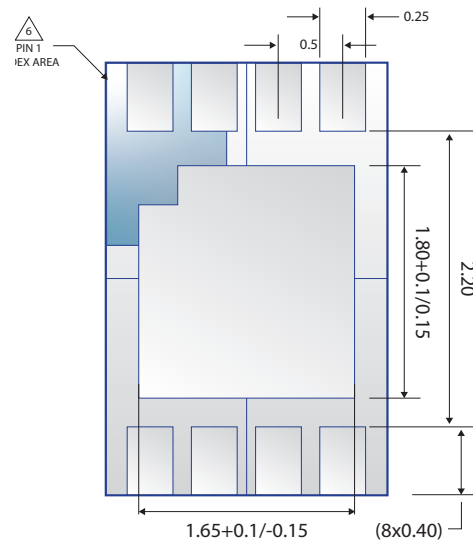
## Block Diagram



## Package Information



**TOP VIEW**



**BOTTOM VIEW**

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