**PJM Item Tag**
**PJM Stack Tag**

**SRF 66V10IT**
**SRF 66V10ST**

**PJM (Phase Jitter Modulation)**
Contactless Memory for High Speed and Zero Separation Applications

INTELLIGENT 10 KBit EEPROM with contactless interface
PJM IT (Item Tag): complying to ISO/IEC 18000-3 Mode 2
PJM ST (Stack Tag): an enhancement of ISO/IEC 18000-3 Mode 2
PJM IT and PJM ST: Transaction speed is approximately 25 times faster than typical RFID devices.
PJM ST: Inherent Zero Separation feature supports read/write to hundreds of closely stacked items.

PJM - A BREAKTHROUGH technology, a solution to current and new avenues of RFID application.

**Application Segments**
- Track and Trace
- Authentication
- Product/SCM
- Operation Management

**Application Examples**
- Document Management
- Pharmaceutical
- Gaming
- Postal services
- Electronic manufacturing
- Airline baggage handling
- Textile industry

**Features**
- Operating frequency 13.56 MHz
- Contactless air interface and anticollision complying with ISO 18000 Part 3 Mode 2
  - Data transfer rate (to tag): 424 kbit/s
  - Data transfer rate (from tag): 106 kbit/s
  - Identification up to 1200 tags/s
  - Simultaneous tag responses up to 8 channels
- High transfer rate for Item Tag and Stack Tag
  - Data transfer rate up to 848 kbit/s
- Zero Separation for Stack Tag
  - Read/write of hundreds closely stacked items
- 48 bit password
- Lockable chip memory
- Application Group identifier
- Conditional identifier
- 10 KBit EEPROM
- Block organization of memory
- EEPROM updating time per block < 5 ms
- Endurance > 100,000 erase/write cycles
- Data retention > 10 years
- Ambient temperature: -25 ... +70°C (for IC)

**www.infineon.com/contactless**

Chip Card & Security ICs
Block Diagram

Product Summary

<table>
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<tr>
<th>Type</th>
<th>Sales Code</th>
<th>Package</th>
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<tr>
<td>SRF 66VSoIT</td>
<td>on request</td>
<td>die, inlay, module</td>
</tr>
<tr>
<td>SRF 66VSoST</td>
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</tbody>
</table>

Application Example

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