Excelpoint NFC Module
Product Specification

General Information

NFC is a set of short-range wireless technologies working at 13.56 Mhz, typically requiring a distance of 4 cm or less, with few kilo bit per second data exchange rate.

Our NFC modules product series are well designed and tuned to working with varies NFC mobile devices. The NFC modules come with field signal detection function, which enables proximity application working seamlessly with a Touch-and-Work feature.

We believe our latest NFC module design will support our customers to have better solution to win the market.

NFC Module Features

- NFC Forum Tag Type 2 compliance
- Operating distance up to 40mm
- Data rate up to 106Kbit/s
- Passive mode (working without battery or power supply)
- Contactless transmission of data
- High data integrity with 16-bit CRC, parity, bit coding and bit counting
- RF field detect for device wake-up enables low-energy design
- NFC Bluetooth fast pairing (seamlessly working with Bluetooth solution)
- Various design available with different size & shape
- Customized shape available

Typical Application

- Bluetooth mono, stereo headset
- Bluetooth speaker
- Bluetooth accessories
- Wi-Fi access point
- Smart Printer
- Smart IP TV
- Smart Power Meter
- Home security

Host System (Bluetooth, Wi-fi, TV, Printer etc.)
## NFC Module Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance &amp; Standard</td>
<td>ISO/IEC 14443A, NFC Forum, EU RoHS/ELV</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>13.0~16.0MHz</td>
</tr>
<tr>
<td>Communication Distance</td>
<td>&lt;40 mm</td>
</tr>
<tr>
<td>Operating Temperature / Humidity</td>
<td>0°C~ 80°C</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Adhesive physical placement, or 2-pole 2.54mm pitch wire connection</td>
</tr>
<tr>
<td>Wireless Standard</td>
<td>Communication Method: NFC forum NDEF data structure</td>
</tr>
<tr>
<td></td>
<td>Standard Operating Frequency: 13.56MHz</td>
</tr>
<tr>
<td></td>
<td>Modulation System: ASK modulation</td>
</tr>
<tr>
<td></td>
<td>Bit Coding: Manchester encoding system</td>
</tr>
<tr>
<td>Interface</td>
<td>Communication Method: Analogue pulses</td>
</tr>
<tr>
<td></td>
<td>Interface: Connection via matching circuit</td>
</tr>
<tr>
<td>NFC Data</td>
<td>Tag Type Compliant: NFC Forum Type 2 Tag</td>
</tr>
<tr>
<td></td>
<td>Baud Rate: Fast data transfer of 106 Kbit/s</td>
</tr>
<tr>
<td></td>
<td>NVM Memory Size: 144 bytes user memory</td>
</tr>
<tr>
<td></td>
<td>Data Format: NDEF</td>
</tr>
<tr>
<td></td>
<td>Security: Read-only locking</td>
</tr>
</tbody>
</table>

**Contact**

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