ST25R3914/15
Automotive NFC/HF readers

AEC-Q100 qualified NFC/HF reader ICs

The ST25R3914/15 readers are specifically designed for the automotive environment allowing fast response/unlock times while offering lowest power consumption using the internal ultra-low power wakeup. Able to generate a huge field volume even with smallest antenna sizes, while automatic antenna tuning compensates for the metal environment the ST25R3914/15 offers best user experience and interoperability. Seamless coexistence with wireless charging devices is another benefit allowing a hassle free design and fast time to market.

KEY FEATURES
• ISO/IEC 14443 A / B
• ISO/IEC 15693
• ISO/IEC 18092
• FeliCa
• NFC Forum Reader/Writer with P2P
• Guaranteed 1W output power
• Automatic Antenna Tuning
• Capacitive and Inductive wake-up
• 32-pin QFN (5x5 mm)

KEY BENEFITS
• High sensitivity
• High output power 1.0W
• Ultra-Low Power wake-up modes
• EMVco certified designs
• Automotive AEC-Q100

KEY APPLICATIONS
Being fully compliant to the CCC Digital Key 2.0 requirements this NFC reader family is ideal for all automotive applications.
• CCC Digital Key 2.0 car access
• Car start
• Pairing
• In car payment
• Diagnostic
• User settings
• Fleet management
• Car rental/sharing

www.st.com/st25r
Device summary

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<td>ISO14443A/B</td>
<td>SPI 6Mbps</td>
<td>DPO, Inductive &amp; Capacitive wake-up</td>
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AAT = Automatic Antenna Tuning  
DPO = Dynamic Power Output

Applications of NFC

Technical support

The ST25R reader family offers a simple and cost-effective implementation. ST can provide supporting material for integrating the antenna into your application: application notes, reference designs, antenna computation tools, e-presentations and e-learning. Visit www.st.com/st25r.