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the nfc chips embedded in each component of the system make the wireless communication possible for example an nfc chip can be embedded in a banking card and a payment terminal or in a passport where it is used to store biometric data adding a connected nfc tag to an embedded system can establish connectivity to mobile devices at much lower cost than bluetooth or wifi approaches in addition eliminating the need for a battery in an embedded system can further lower an application's overall bill of materials comparing wireless protocols real life examples of the use of an nfc interface and its associated ecosystem in industrial and embedded applications hands on experience with real life application scenarios and operating modes using the stm32 microcontroller environment putting together a complete iap via nfc solution prerequisites apps can be used to add nfc capability to your brand's webpage a web app is an nfc module embedded inside a webpage authorizing nfc instructions and avoiding having to develop a native application it does not recommend this way as it is still in an experimental phase limited platform support etc near field communication nfc is a set of close range wireless standards that enables electronic devices to establish connections by touching or moving within a proximity of 10cm or less about $\frac{1}{2}$ the width of a typical page 4 nxp nfc for embedded applications nfc principles of operation overview near field communication nfc is a short range wireless connectivity technology designed to be intuitive nfc enables simplified transactions data exchange pairing wireless connections and convenience between two objects when in close proximity to one another advanced nfc devices such as the nxp semiconductor pn7150 are designed to simplify the inclusion of nfc functionality in an iot design or any embedded system the pn7150 combines an rf frontend with a low power arm cortex m0 core memory and i/o peripherals figure 1 overview near field 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