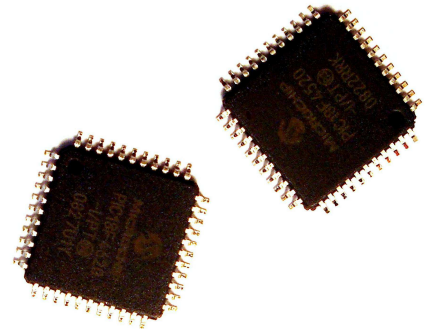


Kronegger Mifare Plus Reader Chipset for High Volume Applications

The Mifare Plus Reader Chipset is the core of devices that can read and write contactless tags of the MIFARE® Family as well as ISO14443A compatible tags. Both MIFARE® Classic as well as the security enhanced Mifare® Plus and Desfire® are fully supported. For integration a NXP reader IC and a crystal is required. The chip itself contains the firmware that controls the reader IC and handles the air interface protocols to communicate with the tags. Antenna tuning during design in or production is supported by the availability of dedicated test signals from the reader IC.



The chip supports 4 additional digital I/O pins. For a fast integration to the world of PCs a C# library is available.

Hints: If you do not have excellent HF and mixed signal expertise we recommend using design in services offered by partners or Kronegger. The chipset is recommended for quantities above 1k pieces or for very compact designs. Use our OEM modules for other projects.

Applications

- Access Control
- Security Applications
- Cashless Payment
- Vending Machines
- Public Transport
- E-Ticketing
- Printers

Specifications

Frequency	13.56 Mhz
Standard	Mifare Classic, ISO14443 A; 106 kBaud Air Interface Speed
Supported Tags	Mifare® Standard, Mifare® Ultralight, Mifare® Desfire, Mifare® Plus, SLE66R35, SLE66R32P
Host Interface	CMOS-TTL Seriell, 9600 Bit/s to 115200 Bit/s, 8, N, 1 binary protocol, C# library
Firmware Updates	Integrated bootloader
Supported Reader ICs	NXP MF RC500, MF RC531, CL RC632
Power Supply	3.0-3.6VDC; reader IC requires 5V for full reading distance
Reading Distance	Up to 85mm , depending on antenna
Antenna	Depending on circuit design
Inputs and Outputs	LED, 4 I/O Ports, Testpins for signals from the reader IC
Chip Package	TQFP 44
Temperature Range	-20°C to + 80°C operational
Storage Temperature	-40°C to + 85°C
RoHS conformity	yes