

## DATASHEET

### ACCESS READER MPX



HF | NFC Access Reader MPX is a sleek and compact RFID read /write device with integrated antenna. It is equipped with RS485 MODBUS and USB 2.0 interface.

The 13.56 MHz HF Version supports standard ISO 14443 A/B and ISO 15693. It reads and writes MIFARE® Classic Mini, 1K and 4K, Plus, SMART, DESFire, Ultralight or NTAG transponders.

HF | NFC Access Reader MPX allows reading ranges of up to 5 centimeters, depending on tag type and orientation. Its compact and sleek design with LED status indicator distinguish the RFID reader from other readers.

The HF | NFC Access Reader MPX is a versatile read and write device for various applications and work sites such as employee identification on production lines within industrial environments.

HF | NFC Access Reader MPX comes with a useful SDK for the development of controller, Linux or Windows based applications. Beside the documentation, command protocols, the SDK includes a Windows based demo application with full functionality over all supported HF RFID standards.

<b>ELECTRICAL SPECIFICATIONS</b>	
Power Supply	5 V (pigtail cable) or 12 V
Current Consumption	< 90 mA
Operating Frequency	13.56 MHz
Operating Distance	up to 5 cm*
Antenna	integrated
Reader IC	NXP CLRC632
RF TX Speed	up to 424 kBd
Interfaces	RS485 - MODBUS or USB 2.0
Baudrate on VCP	9600...115200 Bd
Connector	10 cm pigtail cable (power & data)
Signals	Status LED

\* Reading distance depends on tag type and orientation.

<b>MECHANICAL SPECIFICATIONS</b>	
Dimensions	100 × 46 × 20 mm
Material	ABS (Acrylonitrile butadiene styrene)
Protection Class	IP40
Housing Colour	Black
Weight	48 g

<b>ENVIRONMENTAL CONDITIONS</b>	
Operating Temperature	-20 °C ... +70 °C
Storage Temperature	-20 °C ... +80 °C
Humidity	up to 95 %, non condensing
MTBF	200'000 h

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SUPPORTED STANDARDS   TAGS	
ISO 14443 A and compatible	Read/write: MIFARE® Classic Mini/1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE Ultralight® Nano, MIFARE® DESFire®EV1, MIFARE® DESFire® Light, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x, NTAG 424  Read UID only of all other ISO14443A RFID tags
ISO 14443 B and compatible	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
ISO 15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI/SLIX/DNA, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

APPLICABLE STANDARDS	
EMC	EN 301489-1:2012-04 (v1.9.21) EN 301489-3:2013-12 (V1.6.1)
Radio Regulation	EN 300330-1:2015-08 (V1.8.1) EN 300330-2:2015-08 (V1.6.1)
Safety	EN 60950-1:2014-08 EN 62369-1:2010-03 EN 50364:2010-11
RoHS	EC Guideline 2011/65/EU
Certificates	FCC, CE, IC

SDK INFORMATION	
Supported OS by Silabs USB VCP Driver	Windows 7/8/8.1/10 (v6.7.3) Windows XP/Server 2003/Vista/7/8/8.1 (v6.7) Windows 2K (v6.3a) WinCE (5.0, 6.0) Macintosh OSX (v4) Linux (3.x.x., 2.6.x) Android 4.2
Supported OS	Windows XP, Vista, 7, 8, 8.1, 10
Supported Languages	C, ASCII command protocol
Demo Software	Windows