PRODUCT CATALOG
OEM Read/write Module
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From 2012
SHENZHEN, CHINA

XID-TECH CO., LTD(SHENZHEN)
- RFID Security & Identity Solution -
M301 13.56MHz OEM Reader Module
M302 13.56MHz & NFC OEM Reader Module
M303 13.56MHz & NFC Mini Reader Module

THE LATEST FEATURES:

- Providing flexibility in credential model choice with multi RF card (13.56MHz, NFC mobile phone and contact card
- Advance secure with 128bit AES and 3DES (Trip DES) encryption
- Multi Communication Interface for flexible integration
- Diversified antenna design ideal for different integration
- Selective card polling capability in multi block transfer
- Simple & security commands for reading/writing control
- Ideal for e-purse, secure access and fast data collection applications
- Online Firmware upgarding
- OEM/ODM service

Visual Indicator
M301 One buzzer, Two LEDs (Red and Green)
M302/3 Controllable 2 LED (Red and Green) and 1 Buzzer to observe working status

Communication Rate & Baud Rate
M301 424Kbit/s
M302/3 Up to 848kbps High speed transaction
9600 - 115200 Kbit/s (default 115200)

Operating System
Windows 98/2000/XP/7/8; Vista; Server2003&2008, ME98;
Android; Linux

Software compatible & Testing
SDK (Software development kit)
HTP (hardware testing package)

Specifications

CREDENTIAL TYPES
ISO14443A/AMIFARE®, MIFARE® DESFire® EV1, MIFARE Plus®,
SLI-L/S, Tag-It, My-d, EM4035)
ISO 7816 1/2/3, ClassB, C (3V, 1.8V), T=0 and T=1
Build-in SAM slot, expandable on request

General info
M301 100mm*50mm*10mm (with Build-in Antenna)
50mm*46mm*10mm (with External Antenna)
M302 100mm*50mm*10mm (with Build-in Antenna)
50mm*46mm*10mm (with External Antenna)
M303 32×28×3.5mm

Antenna
M301 One External Antenna 55*50*2.6mm
M302 One External Antenna as below options:
55*50*2.6mm (External Antenna)
40*20*2.6mm (External Antenna)
30*30*2.6mm (External Antenna)
M303 one or two external antenna

Power supply & consumption
M301 5VDC (±5%) or 3.3V DC (±5%) <120mA
M302 3.3V or 5V DC (±5%)
0.45mA in ultra low power mode
80mA (<100 mA) during card polling
M303 3.3V DC (5V on request)
0.45mA in ultra low power mode
80mA (<100 mA) during card polling

Communication interfaces
M301: RS232, RS485, Wiegand26, TTL
M302: RS232, RS485, USB 2.0 (12 Mbps), TTL, SPI, Clock &
Data / ABA1,2 / Wiegand26,30,32,40,42,50,56,58 as optional
M303: USB, TTL, SPI, Wiegand, ABA1/2, Clock & Data

Environmental
Operating Temperate -20° to 60° C
Storage Temperate -25° to 70° C
Operating Humidity 5% to 95% relative humidity non-condensing
FCC Certification (US). CE (EU)

Extended Inputs/Outputs
3 I/O ports, the I/O ports provide TTL level interface for
geneneral-purpose using
No current driving or input protecting
circuits is associated with these I/O ports
Order Guide

<table>
<thead>
<tr>
<th>Config Number</th>
<th>Specifications</th>
<th>Key items to select model</th>
</tr>
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<tr>
<td>M301</td>
<td>13.56MHz OEM Reader Module</td>
<td>1. Supporting RF card</td>
</tr>
<tr>
<td></td>
<td>Antenna: One External Antenna 55<em>50</em>2.6mm</td>
<td>3. Power supply</td>
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<tr>
<td></td>
<td>Power supply: 5V DC</td>
<td>4. Size</td>
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<tr>
<td>M302</td>
<td>13.56MHz &amp; NFC OEM Reader Module</td>
<td>5. Integrated Environment</td>
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<tr>
<td></td>
<td>ISO14443A, MIFARE®, MIFARE Plus, DESFire® EV1, Sony FeliCa™, MIFARE Ultralight®, MIFARE Ultralight C®, ISO1443B, NFC</td>
<td>(* Feedback the above items to sales, you will get the final model name for you)</td>
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<td>ISO 7816 1/2/3, Class B, C (3V, 1.8V), T=0 and T=1</td>
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<td></td>
<td>One build-in SAM slot, expandable on request</td>
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<td></td>
<td>Interface: RS232 or RS485, USB 2.0 (12 Mbps), TTL, SPI, Clock &amp; Data / ABA 1.2</td>
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<tr>
<td></td>
<td>Wiegand26, 30, 32, 40, 42, 50, 56, 58 as optional</td>
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<td>Antenna: One External Antenna as below options:</td>
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<tr>
<td></td>
<td>55<em>50</em>2.6mm (External Antenna)</td>
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<td></td>
<td>40<em>20</em>2.6mm (External Antenna)</td>
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<tr>
<td></td>
<td>30<em>30</em>2.6mm (External Antenna)</td>
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<td></td>
<td>Power supply: 3.3 or 5V DC</td>
<td></td>
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<tr>
<td>M303</td>
<td>13.56MHz R/W mini Reader Module, Low Power Consumption</td>
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<tr>
<td></td>
<td>ISO14443A 1-4 Mifare, Mifare Plus, Desfire EV1, Ultralight, Ultralight C,</td>
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<td>ISO14443B, ISO15693, Felica and ISO18092 NFC with 2 integrated SAM socket</td>
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<tr>
<td></td>
<td>Interface: USB/TTL/SPI/Wiegand26, 32, 32e, 34, 40, 42, 50, 56, 58C/D/ABA 1.2</td>
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<tr>
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<td>Antenna: works with single external antenna</td>
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<td>Power supply: 3.3 V DC</td>
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Specifications are subject to change without notice.

Applications

- Access control, hotel lock
- Automatic identification
- Car parking system, Turnstile system
- Payment system, Vending Machine, Koisk system
- Inventory tracking
- Navigation
M300 series configuration tool offer for reader configuration and multi cards testing. It includes the setting of device setting and configuration, and all parameters in Mifare, Mifare Plus, DESFire EV1, Ultralight, Felica and NFC tag, support ISO14443A. This software tool ease for your reader using detection and diagnosis in normal application environment.

SDK (software development kit) work with R300/C300 series products for second development, which includes API, Host Demo, User manual, USB driver and program example. It’s developed by C++ builder developing tool on windows operating System and GCC developing tool on Linux OS, compatible to VC, VB/VB.NET, C++, C#. 

A plug & play Hardware Testing Package (HTP) for your fast testing and evaluation. Package list:
- Testing Board
- Power supplier
- RS232 cable
- Wire cable
- Internet cable
- Testing Cards
- RS232 / RS485 converter

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