NFC-1901

NEAR FIELD COMMUNICATION, CONTACTLESS CARD READER FOR NFC, MIFARE, ISO-14443 TYPE A/B, RF-TAG, VISAWAVE, PAYPASS LEVEL 1 and USB HUB FOR EICM-1000 and PDR-1689/MMD-1902

For product information, application engineering assistance or pricing, contact us at:

Peripheral Dynamics Inc. 5150 Campus Drive Plymouth Meeting, Pennsylvania 19462-1123 Toll-Free: 800-523-0253

Phone: 610-825-7090 Fax: 610-834-7708

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1. OVERVIEW

NFC-1901 is Contactless smart card reader/writer developed based on the 13.56MHz Contactless technology.

It is ideal for Payment system and Transport fare collection system that it supports Mifare, ISO-14443 TYPE A/B, Felica, Desfire and RF-Tags. Also, it supports card reader, P2P, Card emulation function based on NFC Forum.

NFC-1901 supports full speed of USB up to 12Mbps and it can be connected with IC module (EICM-1000) and MSR module (PDR-1689 or MMD-1902) as one integrated module and controlled by HOST.

2. FEATURE

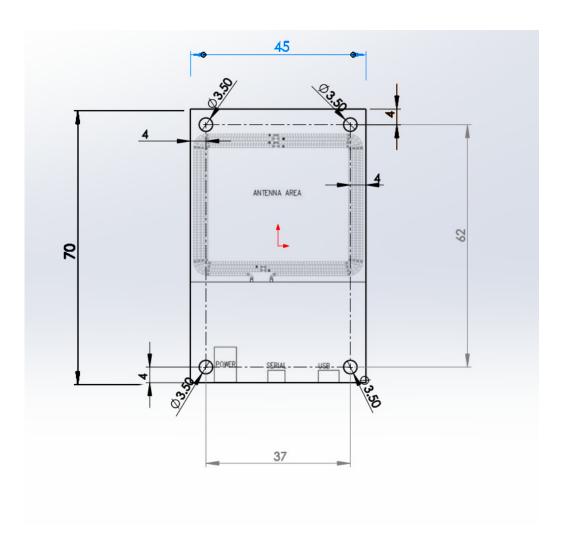
- Read / Write Speed up to 424kbps
- ISO/IEC 14443 Type A and B card support
- ISO/IEC 18092, ÉCMA 340 Peer-to-Peer
- Support NXP Cards
 - Mifare Classics, 4K
 - Mifare Desfire
 - Ultralight, Ultralight C, Ntag203
- Support FeliCa Card
- NFC Tag type 4 Card emulation
- Size: 70mm(L) X 45mm(W)

3. SPECIFICATIONS

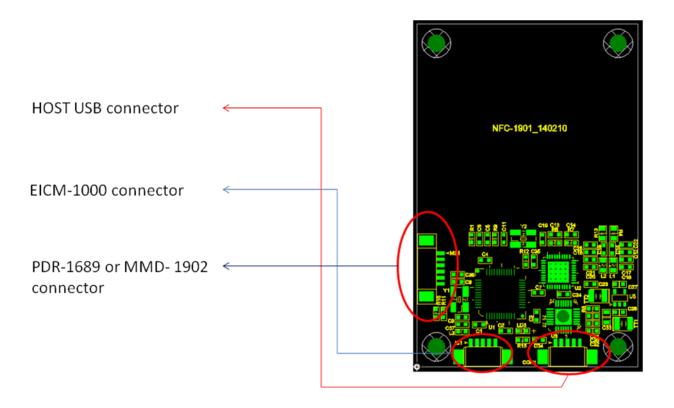
Operating Fre	13.56MHz	
Standard	ISO/IEC 14443 A/B, ISO/IEC 18092, ECMA340 Peer to Peer, Felica, Mifare Classic, Desfire, Ultralight, Topaz, Jwely, NFC Tag type 4card Emulation	
Protocol	FeliCa Protocol, T=CL Protocol	
Operating Range	Up to 3Cm	
Power source	From USB	
USB Speed	12Mbps (Full speed)	
Supply Voltage	DC 5Volt	
Supply Current	200mA (Max)	
Мо	70mm(L) * 45mm(W)	
Operating condition	Temperatur -10 ~ 60 °C e	

Humidity	10% ~ 70%

4. NFC-1901 DIMENSIONS



5. CONNECTOR DESCRIPTION



1. USB HOST connector

USB HOST connector 5pin \rightarrow

Pin number 1

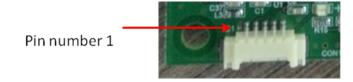


Model: NFC-1901	
Pin#1	VCC(5V)
Pin#2	DP
Pin#3	DM
Pin#4	GND
Pin#5	GND

Cable color	
red	
black	
brown	
yellow	
grey	

HOST connector pin#	
6	
8	
7	
-	
9	
4	

5.2 **IC module connector** EICM-1000 connector 5 pin →



Model: EICM-1000

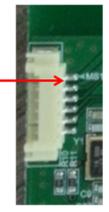
Pin#1	VCC(5V)
Pin#2	TXD
Pin#3	RXD
Pin#4	NC
Pin#5	GND

red	
black	
brown	
yellow	
arev	

3. MSR module connector

PDR-1689 or MMD-1902 connector 6pin →

Pin number 1

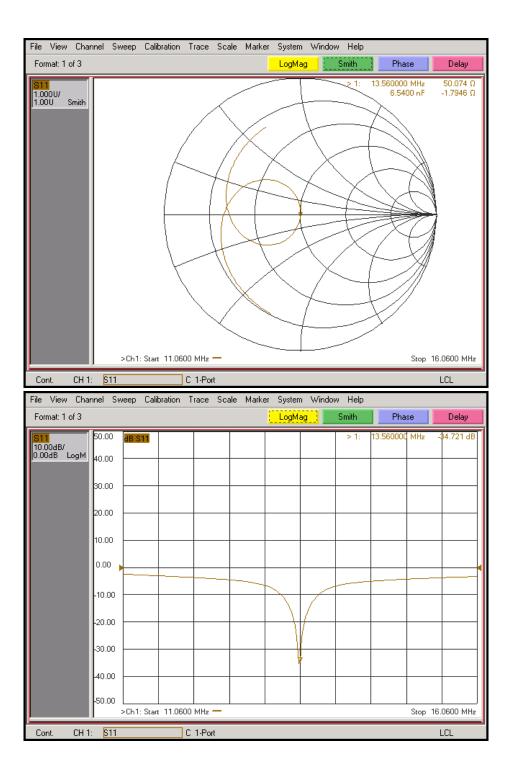


Model: PDR-1689 & MMD-1902

Pin#1	VCC(3.3V)
Pin#2	MISO (TXD)
Pin#3	MOSI(RXD)
Pin#4	CLK (High -> Serial)
Pin#5	DATA_RDY
Pin#6	GND

Cable color

red	
black	
brown	
yellow	
green	
grey	



<The contents can be changed without prior notice.>