UIC680 SERIES

Contactless Smart Card Reader Module - RS232 & USB HID Keyboard Interface (Support M-Chip & qVSDC)

Thank you for purchasing the UIC680 series products.

The contactless smart card reader module UIC680 is mainly to support the contactless payment systems. The small footprint size of the module makes it easily to integrate to the current transaction system such as Point-of-Sale terminal, kiosk, and vending machine station as the part of the system. The module communicates with a host computer or terminal using a standard RS-232, USB or TTL interface.

FEATURES

- Small footprint PCB size: 50 L* 40 W (mm) without antenna board
- Supports ISO 14443 type A & B standard
- Supports American Express® ExpressPay, MasterCard® PayPassTM, Visa® MSD applications
- Reads/writes Philips Mifare® classical contactless smart card
- Provides the options for the direct coupling antenna and the remote antenna
- RS232, USB 2.0 and serial TTL (optional) Interface
- RS232 data pass through function
- TTL F2F magnetic stripe decode data pass through (optional)
- F2F decoder data emulation (optional)
- Firmware upgradeable

AGENCY APPROVAL

Specifications for FCC Class B, CE Class B





NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/ TV technician for help.

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.

SPECIFICATIONS

Communication	Standard RS232 signal level
	Compatible with USB 2.0 specification (optional)/TTL 5V signal level (optional)
Power Requirements	5VDC
Power Consumption	330mA in idle mode; 430mA in operating mode
Operating Temperature	-10 to 50°C
Operating Humidity	10 to 85% (non condensing)
Dimensions	50L x 40W mm, without antenna board

PM076-S Revision 1 Page 1 of 2

PIN ASSIGNMENT

Interface J3 Pin Assignment

DB9	Signal	Direction	PCB-J1	Signal
5	GND		1	GND
2	RxD	← Serial data to host	2	TXD1
3	TxD	→ Serial data from host	3	RXD1
			4	VCC
		Serial Pass-thru or USB data	5	TXD2 (or USB D-)
		Serial Pass-thru or USB data	6	RxD2 (or USB D+)
	Shield		7	Shield

Extension Port J1 Pin Assignment				
Pin	Signal	Comment		
1	GND			
2	GND			
3	Extended IO			
4	Extended IO			
5	GND			
6	VCC	5Vdc		
7	Extended IO			
8	Extended IO			
9	Extended IO			
10	Extended IO			
11	Extended IO			
12	Extended IO			
13	Extended IO			
14	Extended IO			
15	Extended IO			
16	Extended IO			
17	Extended IO			
18	Extended IO			
19	GND			
20	VCC_33	3.3V		
21	Extended IO			
22	Extended IO			
23	Extended IO			
24	Buzzer Control Signal			
25	Extended IO			
26	Extended IO			
27	Extended IO			
28	Extended IO			

50 RF Antenna Port J2B Pin Assignment

Contact number	Signal
1	RF output
2	GND

Direct Match Antenna Port J2A Pin Assignment

Contact number	Signal
1	RX
2	TX
3	GND
4	GND

PM076-S Revision 1 Page 2 of 2