



# SCR28 USB Series *Hybrid Manual Insertion Card Reader*

## Feature

- 3-in-1 Hybrid smart/memory/magnetic card reader
- Manual bi-directional movement (insertion or removal) to read the magnetic card
- IC card landing contact
- USB interface
- On-board flash to upgrade firmware easily
- Card insertion responded by LED
- Compliant with ISO7811, ISO7816, EMV 2000 Level 1
- PC/SC standard (Pass the six-card test provided by Microsoft's WHQL test)
- Plug & play installation for Microsoft Windows
- Drivers, demo programs and libraries for Microsoft Windows.

## Specification

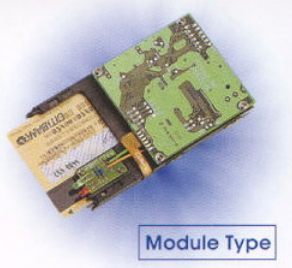
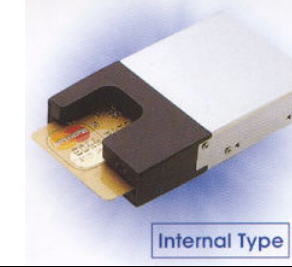



Item		Content		
Smart Card		ISO 7816 T=0,T=1, EMV 2000 Level 1 compliant (R/W)		
Memory Card		SLE 4442/4432, SLE4428/4418, GPM 8K/2K (R/W)		
Magnetic Card		ISO 7810, ISO 7811, JIS X 6301, JIS X 6302 (Read only)		
ISO 7811	Track	Track 1	Track 2	Track 3
	Recording density	210 BPI	75/210 BPI	210 BPI
	Capacity	79 characters (7 bit code)	40/107 characters (5 bit code)	107 characters (5 bit code)
	Start / End Code	% / ?	; / ?	; / ?
JISX6302 Type 1	Track	Track 1	Track 2	Track 3
	Recording density	210 BPI	75 BPI	210 BPI
	Capacity	79 characters (7 bit code)	40 characters (5 bit code)	107 characters (5 bit code)
	Start / End Code	% / ?	; / ?	; / ?
JISX6302 Type 2	Recording density	210 BPI		
	Capacity	72 characters (8 bit code)		
	Start / End Code	DEL / DEL		
USB		Compliant with USBV1.1		
Operation temperature		-10 ~ 50°C		
PC/SC		V1.0		
Driver and demo program		Microsoft Windows 98 (2 <sup>nd</sup> Edition), ME, 2000, XP		
Libraries		DLL and OCX for Windows		



## Model description

Types	Mode No.	IC Card		Magnetic Card 3 Tracks	USB Interface
		Smart Card	Memory Card		
Module	SCR28M-0033U			•	•
	SCR28M-SM00U	•	•		•
	SCR28M-SM33U	•	•	•	•
Internal	SCR28I-0033U			•	•
	SCR28I-SM00U	•	•		•
	SCR28I-SM33U	•	•	•	•
Standalone	SCR28S-0033U			•	•
	SCR28S-SM00U	•	•		•
	SCR28S-SM33U	•	•	•	•
Flush Mount Bracket	SCR28F-0033U			•	•
	SCR28F-SM00U	•	•		•
	SCR28F-SM33U	•	•	•	•
Translucent Bracket	SCR28T-0033U			•	•
	SCR28T-SM00U	•	•		•
	SCR28T-SM33U	•	•	•	•

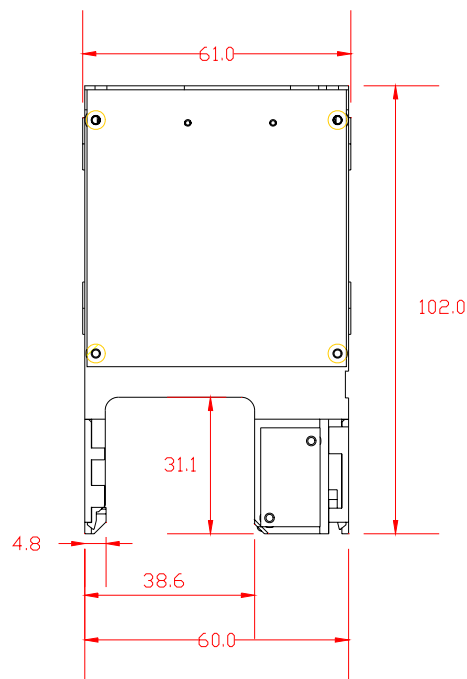
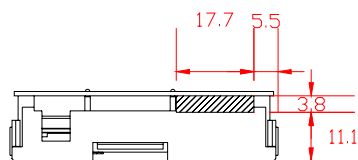
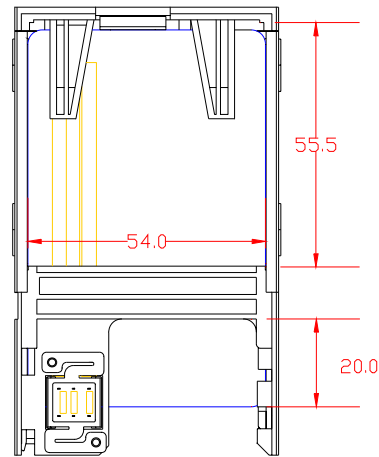
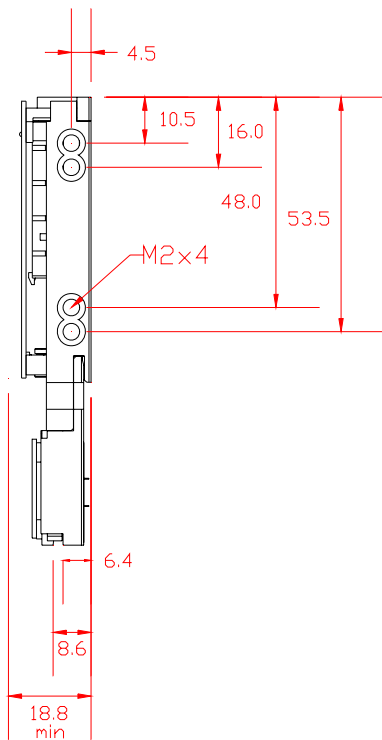
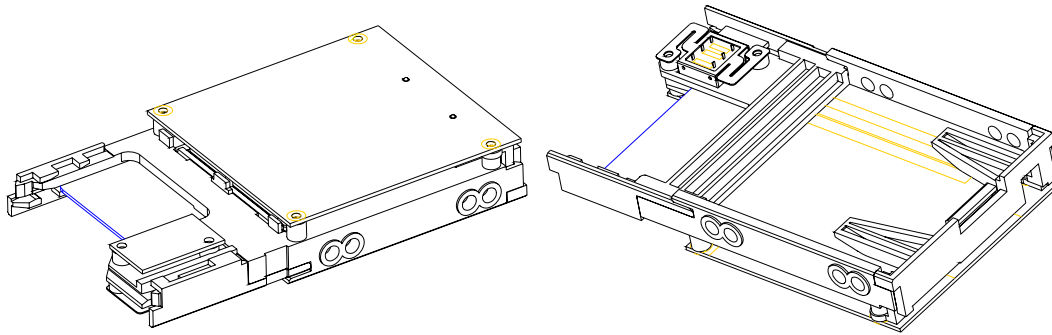
## Model picture

Types	Pictures
<p><b>Module</b></p>	
<p><b>Internal</b></p>	
<p><b>Standalone</b></p>	
<p><b>Flush Mount Bracket</b></p>	
<p><b>Translucent Bracket</b></p>	

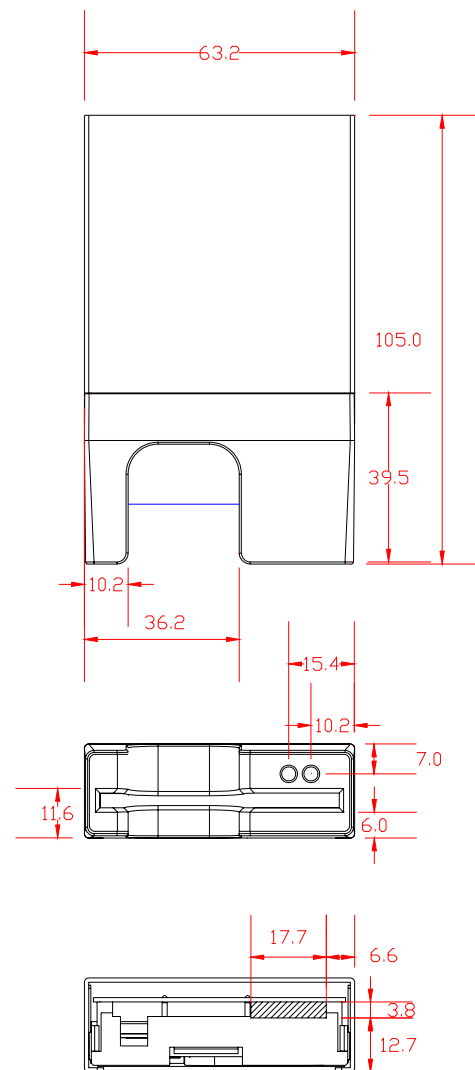
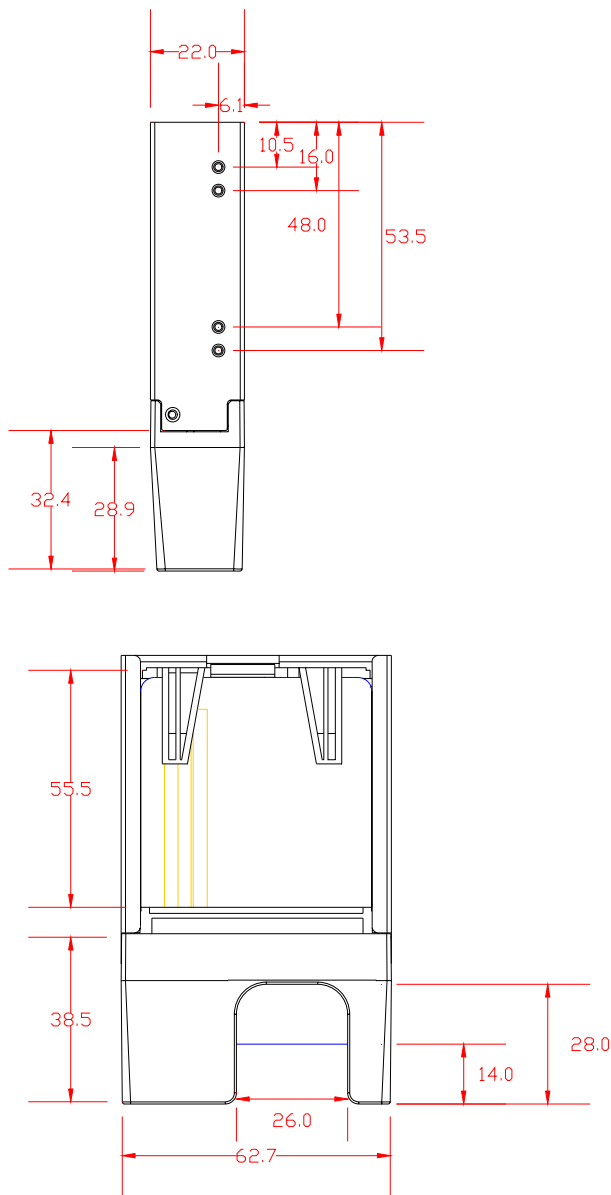
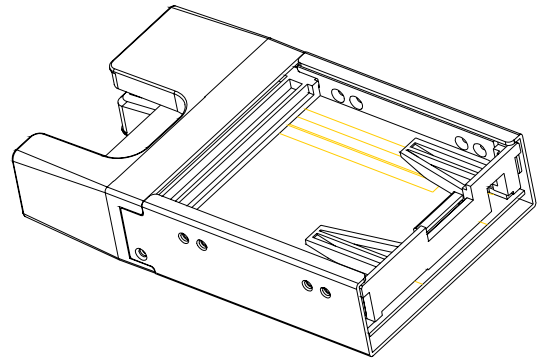
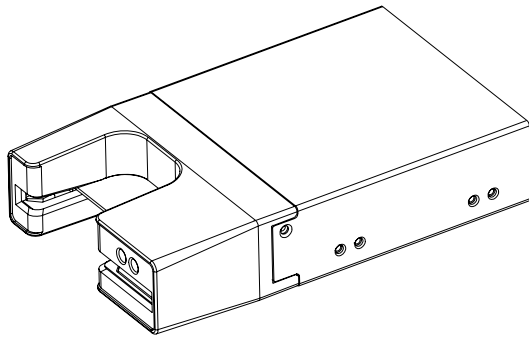


# SCR28 USB Series Dimension

## Mechanical Layout 1 (Module type)

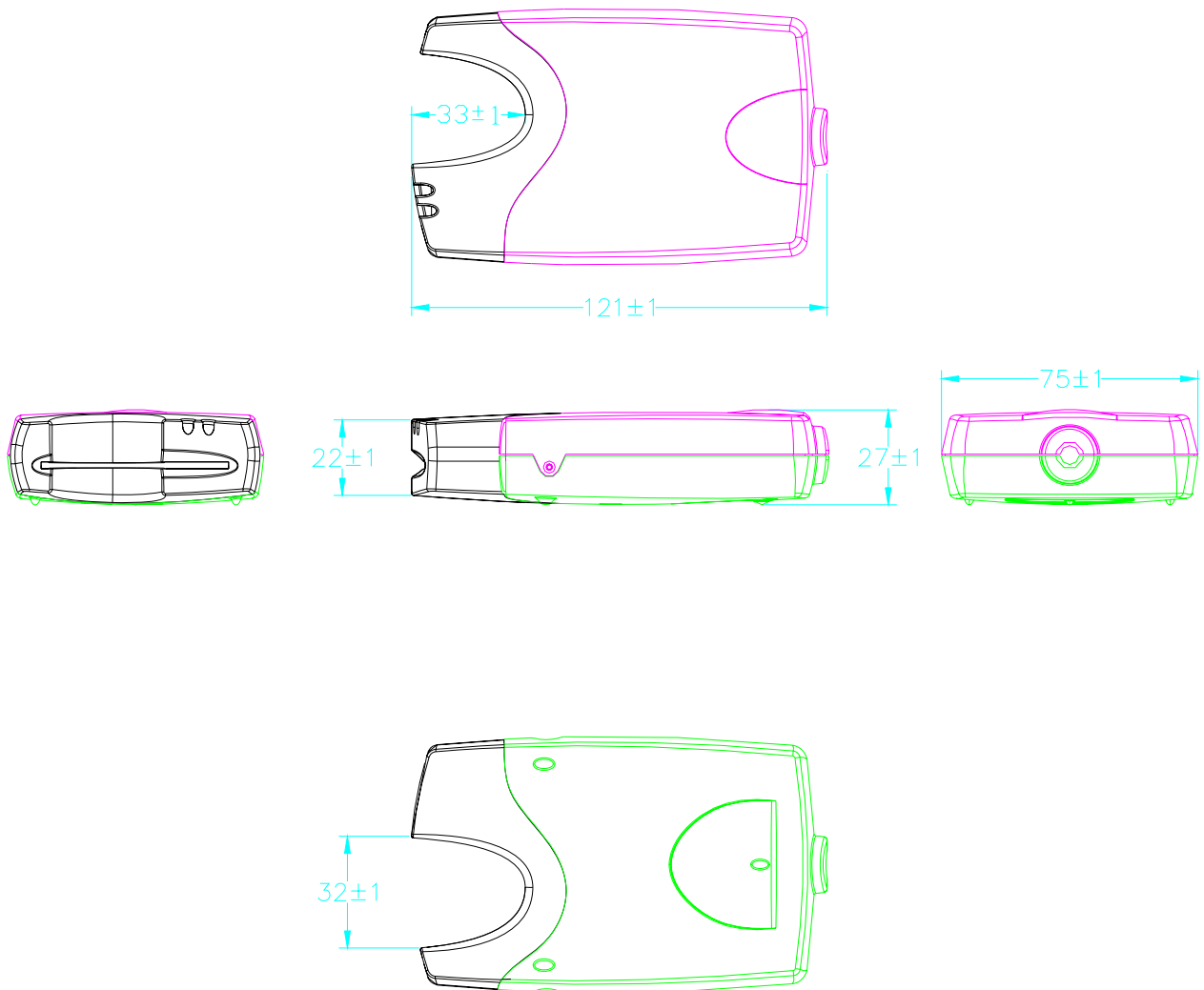


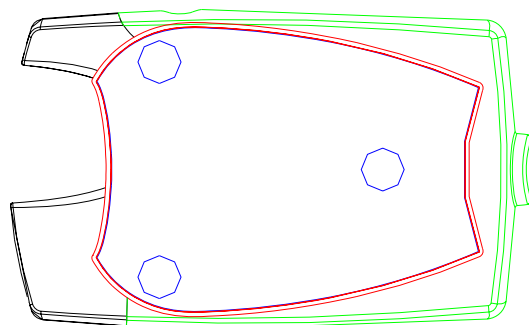
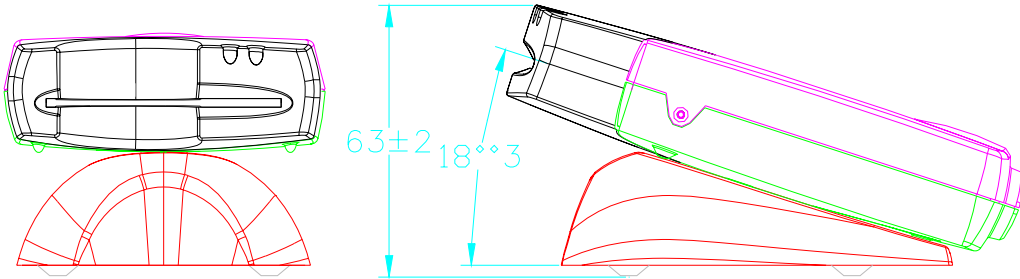
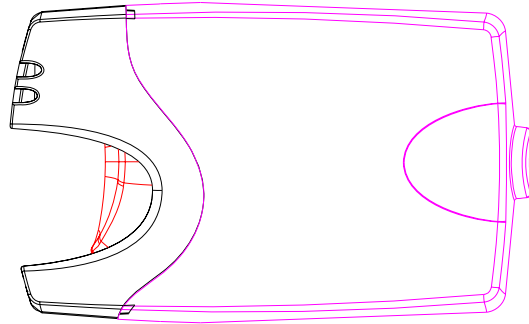
## Mechanical Layout 2 (Internal type)





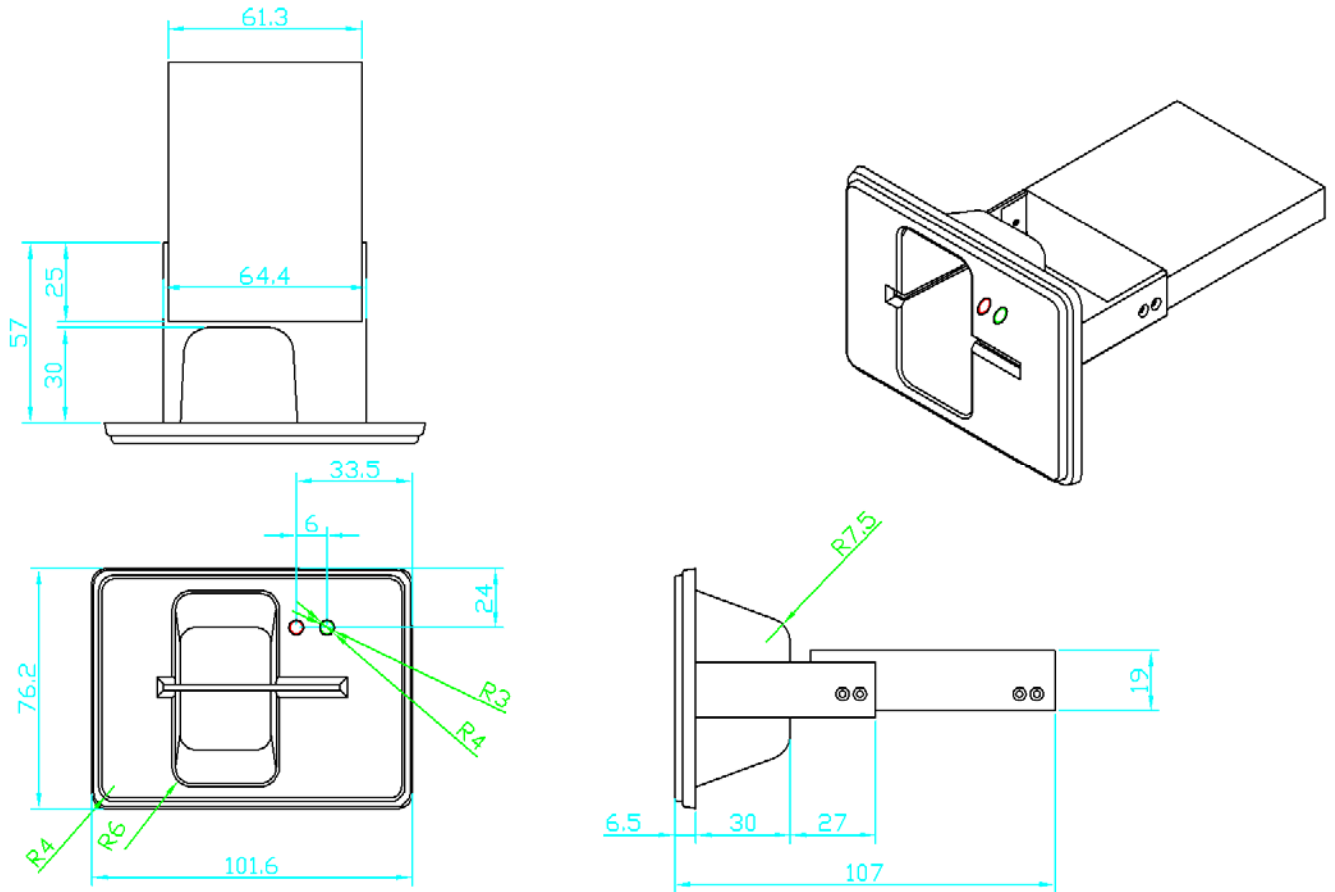
### Mechanical Layout 3 (Standalone type)





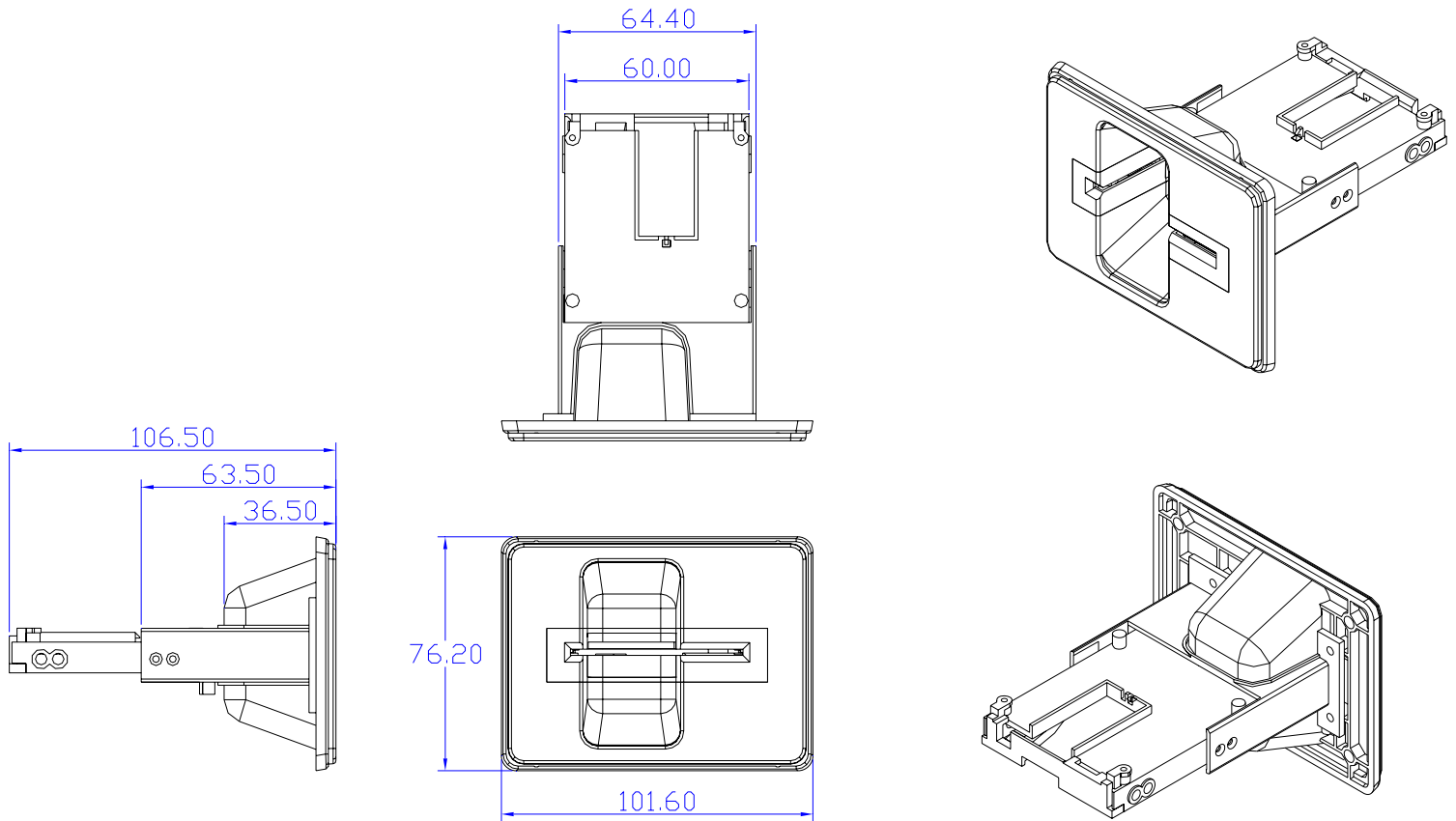


## Mechanical Layout 4 (Flush Mount Bracket type)

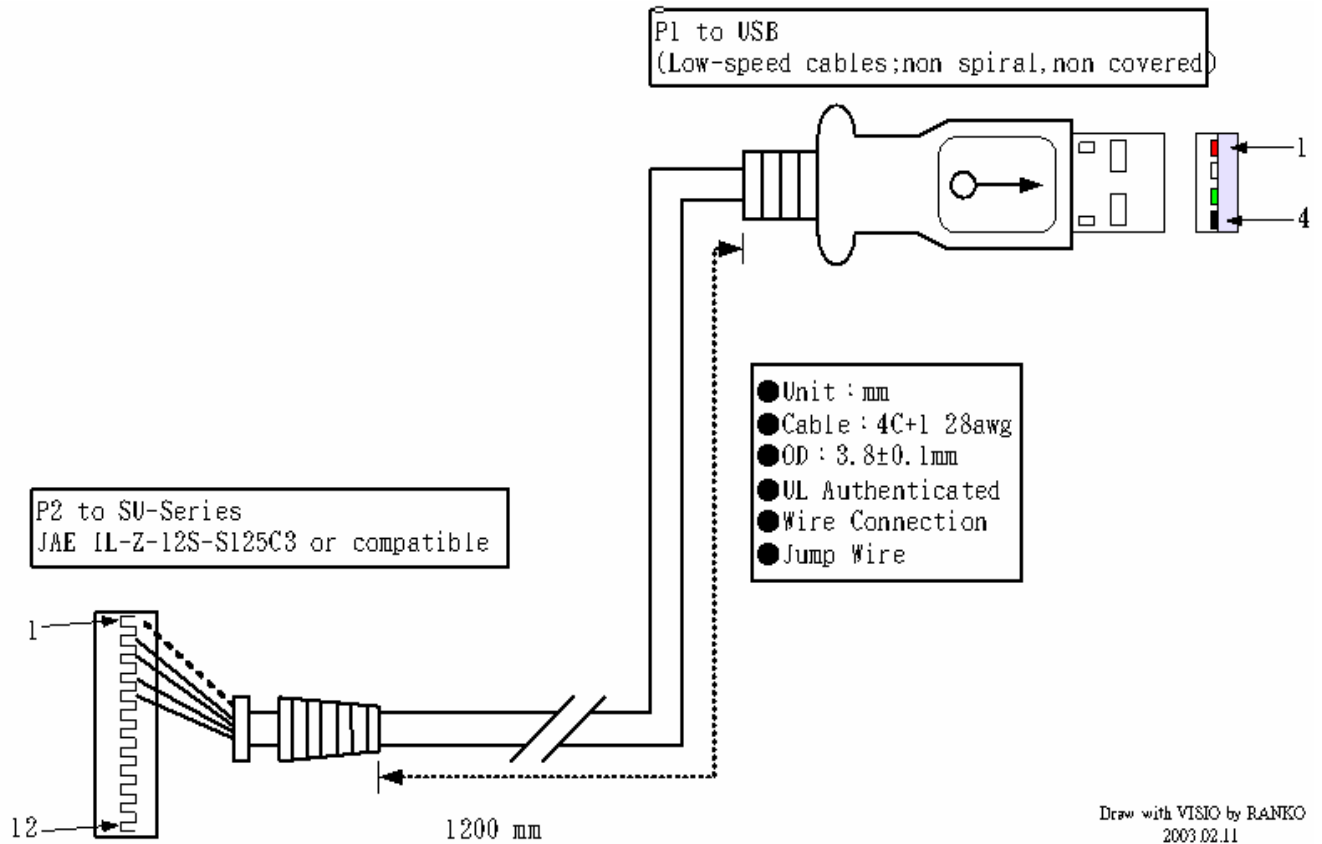




## Mechanical Layout 5 (Translucent Bracket type)



# SCR28 USB Cable Specification



## Pin assignment

Color	P1	P2	Function
Red	1	2	Vcc
White	2	3	Data -
Green	3	4	Data +
Black	4	5	GND
		1	Case GND

