

SPECIFICATION

Customer : _____

Customer's Model No. : _____

Model No. : BR800 Series _____

Date : _____

Sample Serial No. : _____

Spec. Version & Revision Date: V1.2 2009.03.16 _____

Received/Approved by

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Revision History

Version	Date	Context
1.0	2004.04.22	Golden release
1.1	2006.02.17	
1.2	2011.03.16	Modification Cable & part number

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A. General Description

This slot reader module is well designed and constructed with high quality components. It accepts wide range of reading speed and provides very accurate barcode scanning. With different wavelengths, barcodes which are printed on different materials can be easily read to suit the application needs.



The built-in decoder is an advanced and versatile decoding facility for barcoding systems. It works with variety of bar code types and computer interfaces.

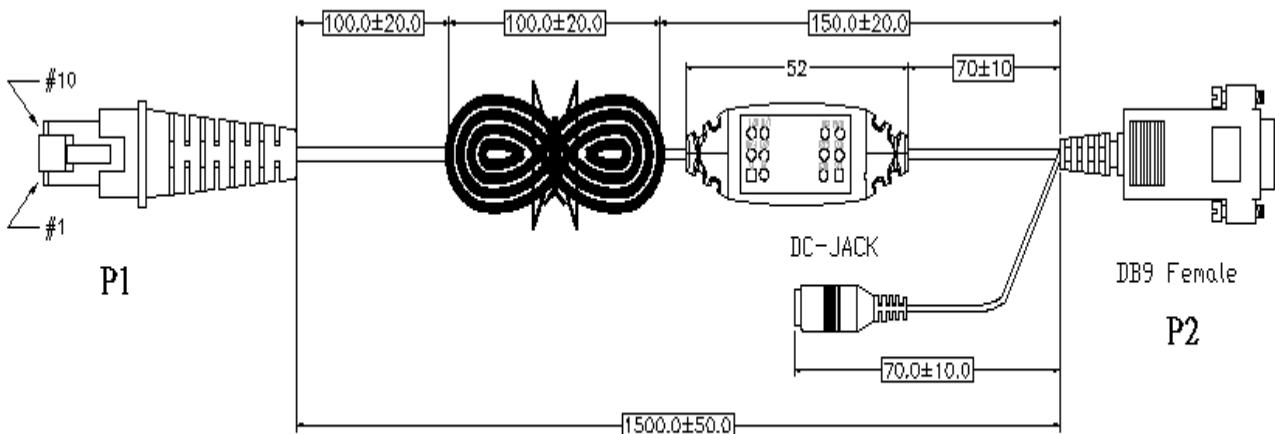
B. Physical Characteristics

Weight	
Body Weight	120.4 g (3.87 oz)
Cable Weight	Approx. 80.2 g (2.83 oz)
Material	
	PC&ABS
Cable Length	Approx. 150 cm (59.06 inch)
Decoder Board Weight	
	12 g (0.42 oz)
Dimension	
	150.23 mm X 43.35 mm X 43.0 mm

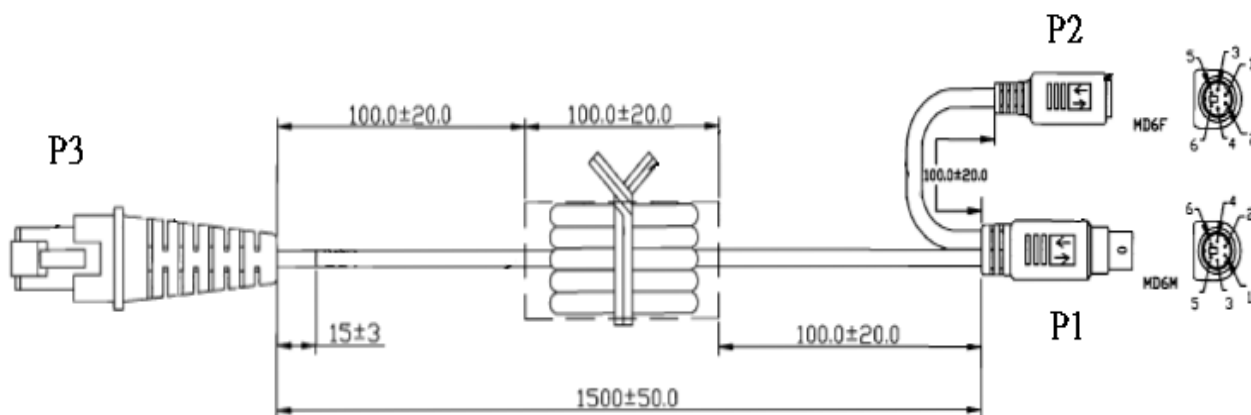
Cable Drawing

Unit : mm

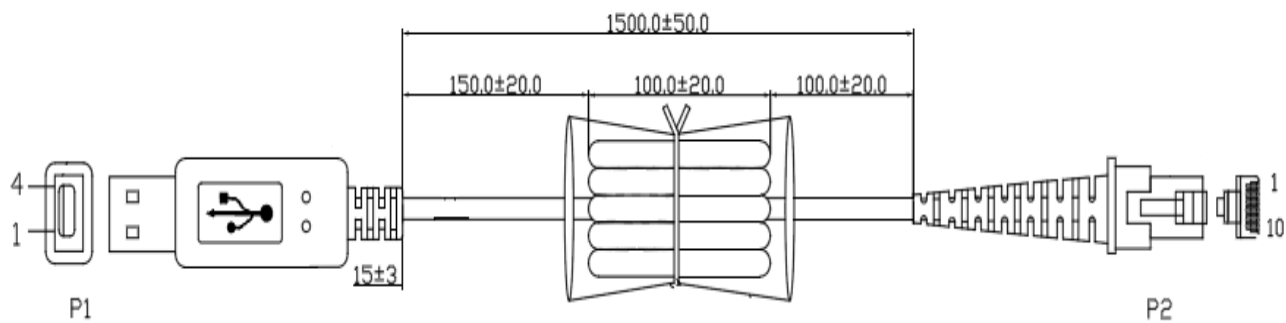
RS232 Interface :



P1	Function	P2	DC-JACK
3	GND	5	Shielding
5	VCC	9	CORE
7	TXD	2	
9	RXD	3	
1	RTS	8	
10	CTS	7	

Keyboard Interface :

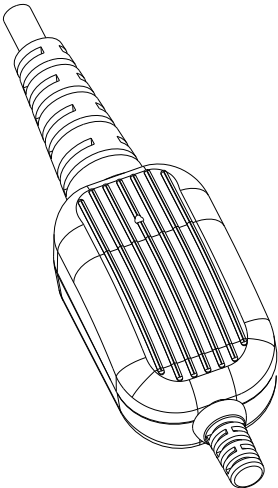
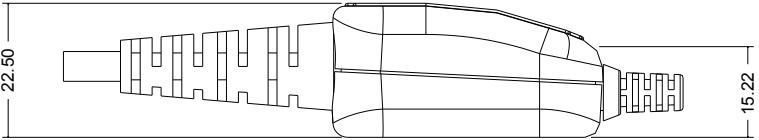
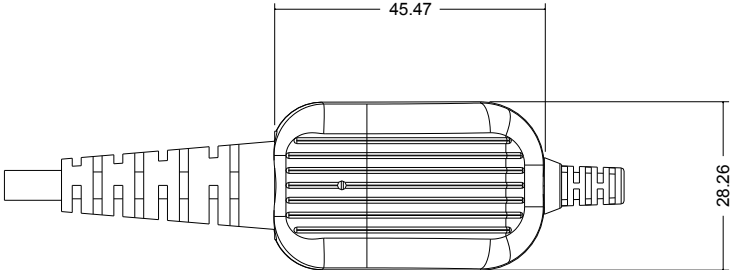
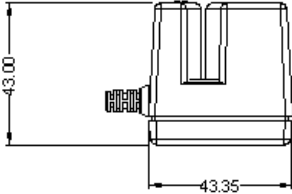
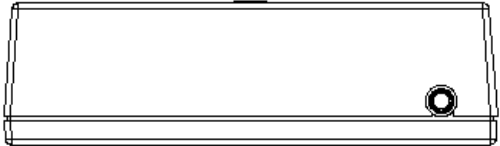
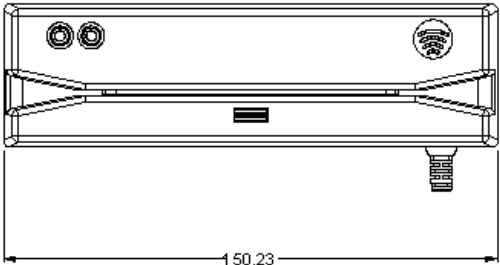
Wire table				Function
P3	Color	P1	P2	
2	Green	1		HOST CLK
3	Brown	3	3	GND
4	Blue	5		HOST DATA
5	Red	4	4	VCC
6	Orange		5	KB CLK
8	Yellow		1	KB DATA
		Shielding	Shielding	Shielding

USB Interface :

P1	Function	P2	Function
1	VCC	5	VCC
2	D-	2	HOST DATA
3	D+	4	HOST CLK
4	GND	3	GND
Shielding	Shielding	3	Shielding

Mechanical drawing

Unit : mm



C. Electrical Characteristics

BR80X :

Interface	RS232	KB	RS232 TTL	USB
Supply Voltage	DC+5V±5%			
Output Voltage (Typ.)	±9V	+5V ±5%	+5V ±5%	+5V ±5%
Output low Voltage (Max.)	-	0.4V	0.4V	0.4V
Current Draw	±10%			
Power On (Typ.)	85 mA	82 mA	82 mA	82 mA
Stand by (Typ.)	50 mA	47 mA	47 mA	47 mA
Operation (Typ.)	81 mA	77 mA	77 mA	77 mA

BR81X :

Interface	RS232	KB	RS232 TTL	USB
Supply Voltage	DC+5V±5%			
Output Voltage (Typ.)	±9V	+5V ±5%	+5V ±5%	+5V ±5%
Output low Voltage (Max.)	-	0.4V	0.4V	0.4V
Current Draw	±10%			
Power On (Typ.)	82 mA	81 mA	81 mA	81 mA
Stand by (Typ.)	47 mA	45 mA	45 mA	45 mA
Operation (Typ.)	80 mA	76 mA	76 mA	76 mA

D. Performance

	BR80X	BR81X
Light Source	Visible Red light 632nm LED	Infrared ray 940nm
Sensor	Photo Diode	
Scan Rate	100 - 1000 mm / sec (3.9 - 39 inch / sec)	
Resolution	6mil/0.15mm@PCS90%	
Height Scan Line	10.5 mm / 8.5 mm	
Ambient Light	3000 Lux Max.	

E. Environmental

Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage Temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Relative Humidity	20% to 95% (Non-condensing)

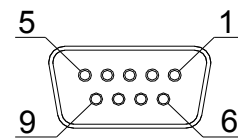
F. Readable Symbologies

	Readable	Default Enable
All UPC/EAN/JAN	V	V
EAN128 Code	V	V
Code 39	V	V
Code 39 Full ASCII	V	
Code 128	V	V
CODABAR/NW7	V	V
Interleave 25	V	V

G. Pin Assignment

(a) TTL Interface (DB 9 Female)

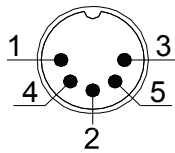
Pin No.	Function
1	S.O.S.
2	DATA
3	N.C.
4	N.C.
5	TRIGGER
6	P. E.
7	GND
8	N.C.
9	+5V



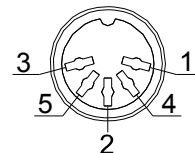
DB 9 Female

(b) Keyboard Interface**DIN 5 MALE**

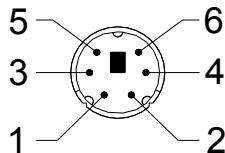
Pin No.	Function
1	HOST CLK
2	HOST DATA
4	GND
5	Vcc(+5V)

**DIN 5 FEMALE**

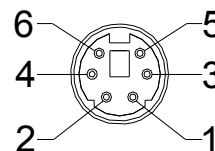
Pin No.	Function
1	KB CLK
2	KB DATA
4	GND
5	Vcc(+5V)

**MiniDIN 6 MALE**

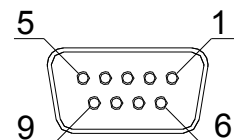
Pin No.	Function
1	HOST DATA
3	GND
4	Vcc(+5V)
5	HOST CLK

**MiniDIN 6 FEMALE**

Pin No.	Function
1	KB DATA
3	GND
4	Vcc(+5V)
5	KB CLK

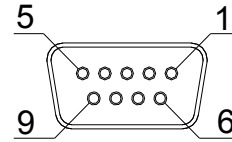
**(c) RS-232 Interface****DB9 Female with Power Lead**

Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)

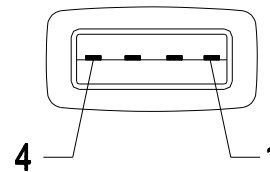
**DB 9 Female**

DB9 Female without Power Lead

Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
9	Vcc (+5V)

**DB 9 Female****(d)USB Interface****USB A TypeMale**

Pin No.	Function
1	Vcc
2	D-
3	D+
4	GND

**H. Reliability****Life Time**

Light Source	40,000 hours
MTBF(Calculated)	26,000 hours

Thermal Shock

High Temp.	60 °C (140 °F)
Low Temp.	-20 °C (-4 °F)
Cycle time	20 minutes for high temp. , 20 minutes for low temp.
Cycles	5 cycles

Cable Bending Test	25,000 times minimum (30 times/min @ 500g/90 °)
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Mechanical Shock	40 inch (100 cm) Drop on Concrete Surface
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I. Part Number

