

# F2F Decoder IC

## Single track, BS100E

### Features

- Speed range: 300 to more than 12600 BIT/sec.
- Small outline and surface mount design.
- Built-in operational amplification circuitry.
- Operational power 3.3V/5.0V automatic gain control.
- Power down mode for stand-by control.
- Support for 75/210 BPI recording density.
- 0.8um CMOS ASIC IC for F2F magnetic stripe card reader.
- Low power : Current 1.0 ~ 1.25mA, best for portable, hand-held devices.
- Two modes for RCP width. One is 14 ~ 60us. The other one is 1/4 RDP width.
- Built-in Boarding Pass Ticket reading solution--- recovery for data lose.



### Application

- Magnetic stripe card reader.
- Security Control.
- POS Keyboard
- CAT(card authorization terminal )

### Specification

- Power Voltage: DC3.3V /5V
- Consumption: 1.0mA /DC 3.3V; 1.25mA /DC 5.0V
- Reading Speed Range /second: 10cm/sec ~ 150cm/sec
- MTBF: 100,000 hrs
- Environment : Temperature: Operating: -10<sup>0</sup>C ~ 55<sup>0</sup>C; Storage: -30<sup>0</sup>C ~ 70<sup>0</sup>C  
Humidity: Operating: 10% ~ 90%; Storage: up to 100%
- Pin Assignment

No	Signal	No.	Signal	No.	Signal	No.	Signal
1	OP1OUT	5	VREFIN	9	CLS	13	RESEL
2	OP2IN	6	NPWDN	10	ADJ	14	VDD
3	OP2OUT	7	DATA1	11	NRCPM	15	MSI1-
4	GND	8	CLK1	12	OSC	16	MSI1+