

# F2F Decoder IC

## Dual track, BS200E

### Features

- 8um CMOS ASIC IC for F2F magnetic stripe card reader.
- Built-in operational amplification circuitry.
- Low power : Current 1.0 ~ 1.25mA, best for portable, hand-held devices.
- Operational power 3.3V/5.0V automatic gain control.
- Two modes for RCP width. One is 14 ~ 60us. The other one is 1/4 RDP width.
- Power down mode for stand-by control.
- Support for 75/210 BPI recording density.
- Speed range: 300 to more than 12600 BIT/sec.
- Built-in Boarding Pass Ticket reading solution--- recovery for data lose.
- Small outline and surface mount design, SOP24.



### Application

- Magnetic stripe card reader.
- POS Keyboard
- Security Control.
- CAT (Card Authorization Terminal )

### Specification

- Power Voltage: DC3.3V /5V±5%
- 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°C ~ 55°C; Storage: -30°C ~ 70°C  
Humidity: Operating: 10% ~ 90%; Storage: up to 100%
- Pin Assignment

No.	Signal	No.	Signal	No.	Signal
1	MSIB+	9	RDPB	17	OSC
2	MSIB-	10	RCPB	18	RESEL
3	OPB1OUT	11	RDPA	19	VDD
4	OPB2IN	12	RCPA	20	OPA2OUT
5	OPB2OUT	13	CLS	21	OPA2IN
6	GND	14	ADJ	22	OPA1OUT
7	VREFIN	15	NRCPM	23	MSIA-
8	NPWDN	16	NERC	24	MSIA+