

# F2F Decoder IC

## Triple track, BS300HQ

### Features

- Noise Filter technology
- Auto-gain control technology
- Operational power DC 2.7V ~ 5.5V
- Power down mode for stand-by control
- Built-in operational amplification circuitry.
- Old/Bad issued card reading improvement
- Support for 75/210 BPI recording density.
- Speed range: 300 to more than 12600 BIT/sec.
- Small outline and surface mount design.
- 0.6um CMOS ASIC IC for F2F magnetic stripe card reader.
- RCP width is 14 ~ 60us.
- Low power: Current Max. 3.3mA, best for portable, hand-held devices.



QFN32 5mm x 5 mm

### Application

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

### Specification

- Power Voltage: DC2.7V ~ 5.5V
- Consumption: 2.5mA /DC 3.3V; 3.3mA /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	No.	Signal
1	AGND	9	RDPB	17	ADJ	25	OPA1OUT
2	VREFIN	10	RCPB	18	OSC	26	MSIA-
3	MSIC+	11	RDPC	19	RESEL	27	MSIA+
4	MSIC-	12	RCPC	20	IBS	28	MSIB+
5	OPC1OUT	13	RDPA	21	DVDD	29	MSIB-
6	OPC2IN	14	RCPA	22	AVDD	30	OPB1OUT
7	OPC2OUT	15	DGND	23	OPA2OUT	31	OPB2IN
8	NPWDN	16	CLS	24	OPA2IN	32	OPB2OUT