

DI16/DI32



1 FEATURES

- 16 or 32 isolated binary inputs
- 24 V or 110 V input voltage
- PC/104 bus

2 TECHNICAL SPECIFICATIONS

Bus interface	PC/104
Bus frequency	up to 16.7 MHz
Form factor	AR4C ¹
Power supply voltage	5 V \pm 5%
Power consumption	up to 400 mW
Operating temperature	5°C to 70°C
Storage temperature	-40°C to 85°C
Dimensions [mm]	151 \times 125 \times 19
Number of inputs	16 or 32
Inputs type	DC
Inputs current flow direction	sink
Inputs voltage	24 V or 110 V
Inputs voltage tolerance	\pm 35%
Inputs current [mA]	1.3 to 6
Inputs isolation	\geq 1000 V

¹form factor for the PC/104 bus

3 BINARY INPUTS PARAMETERS

Parameter	Min	Typ	Max	Unit
I_{LO}	0		0.5	mA
I_{HI}	1.3	2	6	mA
V_D		3.3	4.3	V

I_{LO} — input current for low state

I_{HI} — input current for high state

24 V version:

Parameter	Min	Typ	Max	Unit
V_{LO}	-30	0	8	V
V_{HI}	17	24	60	V
R	4.4	9.4	9.9	k Ω

110 V version:

Parameter	Min	Typ	Max	Unit
V_{LO}	-150	0	29	V
V_{HI}	70	110	300	V
R	22	48	51	k Ω

V_{LO} — input voltage for low state

V_{HI} — input voltage for high state

R — input resistance

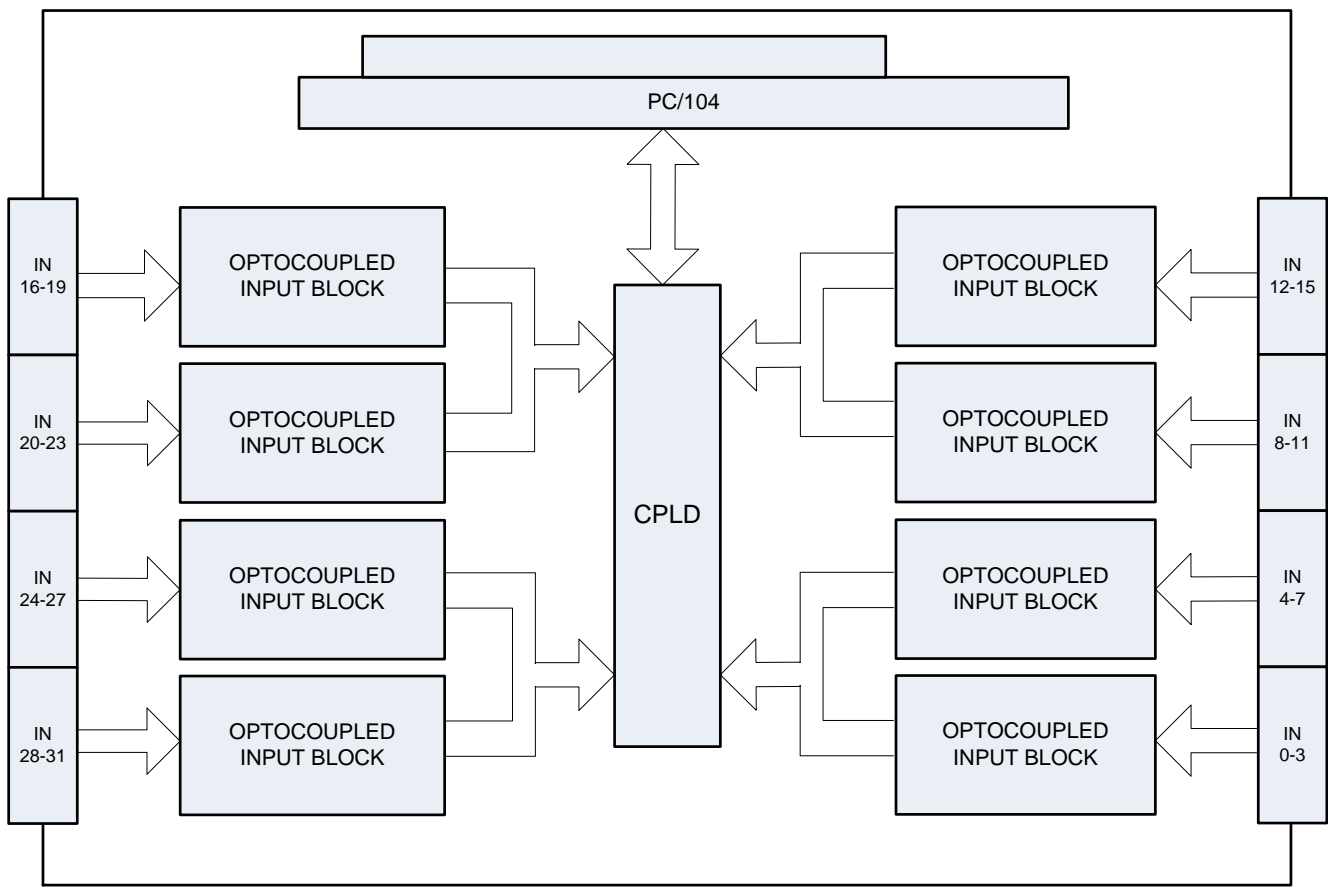


Figure 1: DI16/DI32 card block diagram

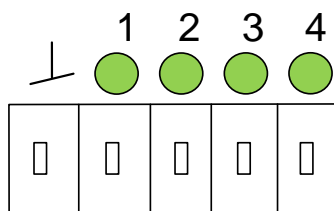


Figure 2: DI32 card binary inputs connector

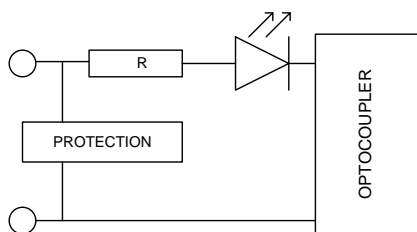


Figure 3: Input circuit

4 ORDERING GUIDE

The DI32 card is available in the following versions:

Model	Bus	Inputs	Input voltage
DI16-24	PC/104	16	24 V DC
DI16-110	PC/104	16	110 V DC
DI32-24	PC/104	32	24 V DC
DI32-110	PC/104	32	110 V DC

There is a possibility to customize DI16/DI32 module variants to Client's wishes.