PCI-8232 Specifications

Contents

PCI-8232 Specifications

Definitions

Warranted specifications describe the performance of a model under stated operating conditions and are covered by the model warranty.

Characteristics describe values that are relevant to the use of the model under stated operating conditions but are not covered by the model warranty.

- ***Typical*** specifications describe the performance met by a majority of models.
- ***Nominal*** specifications describe an attribute that is based on design, conformance testing, or supplemental testing.

Specifications are ***Typical*** unless otherwise noted.

PCI-8232 Pinout

Use the pinout to connect to terminals on the PCI-8232.
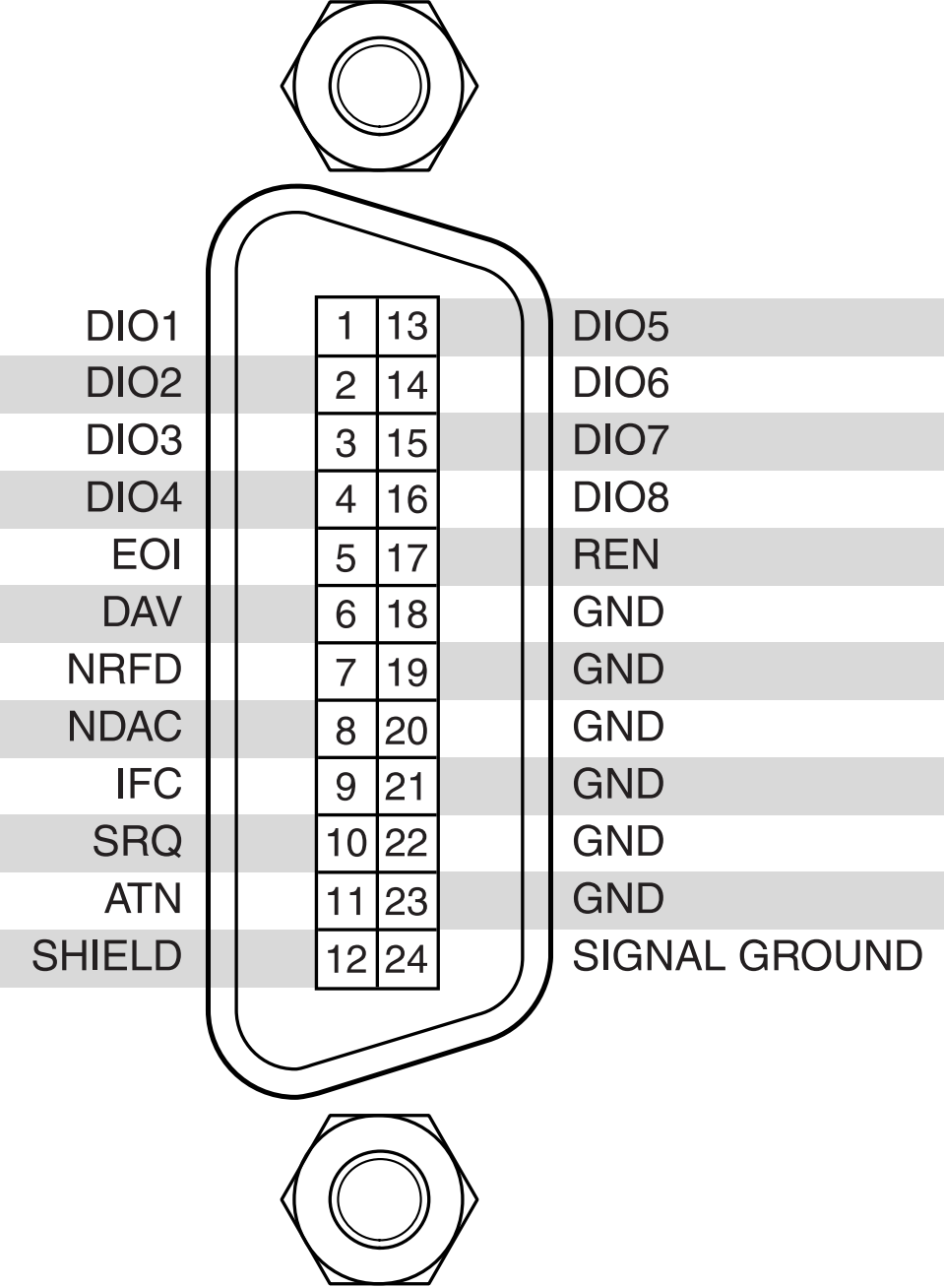
Figure 1. PCI-8232 Connector Pinout

DIO1	1	13	DIO5
DIO2	2	14	DIO6
DIO3	3	15	DIO7
DIO4	4	16	DIO8
EOI	5	17	REN
DAV	6	18	GND
NRFD	7	19	GND
NDAC	8	20	GND
IFC	9	21	GND
SRQ	10	22	GND
ATN	11	23	GND
SHIELD	12	24	SIGNAL GROUND

Table 1. Signal Descriptions

Signal	Terminal	Description
DIO1	1	Data Input/Output Bit.
DIO2	2	Data Input/Output Bit.
DIO3	3	Data Input/Output Bit.
DIO4	4	Data Input/Output Bit.

Signal	Terminal	Description
EOI	5	End-Or-Identify.
DAV	6	Data Valid.
NRFD	7	Not Ready For Data.
NDAC	8	Not Data Accepted.
IFC	9	Interface Clear.
SRQ	10	Service Request.
ATN	11	Attention.
SHIELD	12	Shield.
DIO5	13	Data Input/Output Bit.
DIO6	14	Data Input/Output Bit.
DIO7	15	Data Input/Output Bit.
DIO8	16	Data Input/Output Bit.
REN	17	Remote Enable.
GND	18	Ground—Wire twisted with DAV.
GND	19	Ground—Wire twisted with NRFD.
GND	20	Ground—Wire twisted with NDAC.
GND	21	Ground—Wire twisted with IFC.
GND	22	Ground—Wire twisted with SRQ.
GND	23	Ground—Wire twisted with ATN.
SIGNAL GROUND	24	Logic Ground.

Performance

GPIB	
3-wire	up to 1830 kbytes/s

HS488	up to 7920 kbytes/s
Ethernet interface	
10Base-T	up to 10 Mbit/s
100Base-TX	up to 100 Mbit/s
1000Base-T	up to 1000 Mbit/s

Power Requirements

+5 V	917 mA, Typical; 1500 mA, Maximum

Physical Characteristics

Dimensions	12.90 cm × 10.65 cm (5.08 in. × 4.19 in.)
Weight	102 g (3.6 oz)
Connector	
GPIB	IEEE 488 24-pin connector
Ethernet	RJ-45 with integrated LEDs

Environment

Operating ambient temperature	0 °C to 55 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2.)
Operating relative humidity	10% to 90%, noncondensing (Tested in accordance with IEC 60068-2-56.)
Storage ambient temperature	-20 °C to 70 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2.)
Storage relative humidity	5% to 95%, noncondensing (Tested in accordance with IEC 60068-2-56.)