

DIO AI



1 FEATURES

- 3 isolated binary 24 V inputs
- 2 relay outputs
- 4 audio inputs
- 24 V isolated power supply

2 TECHNICAL SPECIFICATIONS

Bus interface	PC/104
Form factor	AR4C
Power supply voltage	5 V \pm 5%
Power consumption	up to 0.5 W
Operating temperature	5°C to 50°C
Storage temperature	-40°C to 85°C
Dimensions [mm]	151×125×19
LCD display type	Text/TTL ¹
Touchscreen type	4-wire resistive
Touchscreen controller	TSC2003

2.1 BINARY INPUTS

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

¹TTL pass-through for Advantech PCM-3353 CPU boards

V_{LO}/V_{HI} — input voltage for low/high state

R — input resistance

2.2 24 V OUTPUT

Parameter	Min	Typ	Max	Unit
Output voltage	20	23.3	26.4	V
Output current	50	63	78	mA
Output impedance		11		Ω

2.3 AUDIO INPUTS

Parameter	Min	Typ	Max	Unit
Input voltage	-2		2	V
Input impedance		50		k Ω

3 ORDERING GUIDE

DIO card is available in the following versions:

Model	Display	Touchscreen
DIO	none	no
DIO-TEXT-LCD	20×4 text	no
DIO-TS	none	yes
DIO-TS-TTL-LCD	LCD TTL	yes