

# Digital I/O

## PCI & PCI Express

96-pin Half Pitch | Bi-direct 48 | Non-isolated | Digital Filter

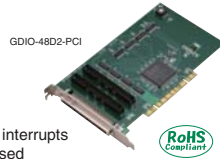
Windows Driver | Linux Driver

Bi-Directional Digital I/O

**GDIO-48D2-PCI**  
**[DIO-48D2-PCI]**  
**GDIO-48D-PE**  
**[DIO-48D-PE]**

NEW

- 48-point (TTL-level, Positive logic) bi-directional digital I/O, i8255 Mode 0-compatible
- All input signals (Max. 48 points) can be used as interrupts
- Digital filtering function to prevent input error caused by noise and/or chattering
- Driver library for Windows/Linux is provided
- Functions, Connector pin and Signal assignments are compatible with the PCI-compliant board PIO-48D(PCI)



RoHS Compliant

## PCI & PCI Express

Low Profile | 68-pin 0.8mm Pitch | Bi-direct 96 | Non-isolated | Digital Filter

Windows Driver | Linux Driver

Bi-Directional Digital I/O

**GDIO-96D2-LPCI**  
**[DIO-96D2-LPCI]**  
**GDIO-96D-LPE**  
**[DIO-96D-LPE]**

NEW

- Low Profile PCI-compliant (includes bracket for use in standard PCI slot)
- 96-point (TTL-level, Positive logic) two-way digital I/O i8255 Mode 0-compliant
- All input signals (Max. 96 points) can be used as interrupts
- Digital filtering function to prevent input error caused by noise and/or chattering
- Driver library for Windows/Linux is provided



RoHS Compliant

Model	GDIO-48D2-PCI	GDIO-48D-PE	GDIO-96D2-LPCI	GDIO-96D-LPE
Input channels	-	-	-	-
Output channels	-	-	-	-
I/O channels	48	-	96	-
Input specifications	Type	TTL-level (Positive logic)		
	Signal Level	5VDC		
	Interrupts	48 interrupt signals combine to one interrupt request signal as INTA		96 interrupt signals combine to one interrupt request signal as INTA
Output specifications	Resistance	Pull-up 10kΩ		-
	Type	TTL-level (Positive logic)		
	Rating	5VDC IOL=24mA, IOH=-15mA		
Response Time (Max.)	200nsec			
Internal Power	-			
Wiring Distance	1.5m (depending on wiring environment)			
I/O Address	Occupies 32 ports			
Power Consumption (Max.)	5VDC 600mA	3.3VDC 1000mA (Max.)	5VDC 950mA	3.3VDC 300mA (Max.)
Bus / Dimensions (mm)	PCI (32bit, 33MHz, 5V or 3.3V**1) / 176.41(L)x106.68(H)	PCI Express Base Specification Rev. 1.0a x1 169.33 (L) x 110.18(H)	PCI (32bit, 33MHz, 5V or 3.3V**1) / 121.69(L)x63.41(H)	PCI Express Base Specification Rev. 1.0a x1 121.69(L) x 67.90(H)
Connector	CN1: 96pin female half-pitch PCR-96LMD [HONDA Tsushin Kogyo] or equivalent CN2, CN3: 50pin box header connector PS-50PE-D4T1-B1A[JAE] or equivalent		68-pin 0.8mm pitch: HDRA-E68W1LFDT+ [HONDA Tsushin Kogyo] or equivalent	
Options	Software	ACX-PAC(W32)		
	Accessories	EPD-96A**4, EPD-96**2, DTP-64(PC)**2, DICT-96S**2, DICT-96F**2		EPD-96A**4, EPD-96**2, DTP-64(PC)**3, EPD-68A**4, DICT-96S**3, DICT-96F**3
	Cables/Connectors	PCB96P-1.5P, GPCB96PS[PCB96PS]-0.5P/1.5P, PCA96P-1.5P, PCA96PS-0.5P/1.5P, PCA50J-1.5, CN5-H96F		GPCA68PS [PCA68PS]-0.5P/1.5P, PCB68PS-0.5P/1.5P, DIO-68M/96F

\*1: This board requires power supply at +5 V from an expansion slot (it does not work on a machine with a +3.3V power supply only).  
 \*2: Requires optional cable PCB96P or GPCB96PS[PCB96PS].  
 \*3: Requires optional cable DIO-68M/96F.  
 \*4: Requires optional cable PCB68PS-0.5P or PCB68PS-1.5P.  
 \*5: The screw-up terminal block is used, whose screw does not falling off.

As shown on the side of product's images, RoHS Compliant is a CONTEC original marking for RoHS-compliant products.

# Digital I/O

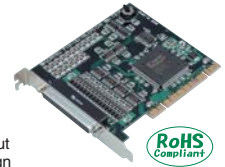
## PCI

37-pin D-SUB | Input 16 | Output 16 | Isolated | Digital Filter | Surge & Overcurrent Protection | CE

Windows Driver | Linux Driver | LabVIEW

Opto-Isolated Digital I/O  
**GDIO-1616L2-PCI**  
**[PIO-16/16L(PCI)H]**

- 16 opto-isolated input, 16 opto-isolated open collector output
- Fast response time (within 200μsecs.) / Power saving design
- All input signals can be used as interrupts
- Output transistor has built-in circuit protection (voltage surge, overcurrent)



RoHS Compliant

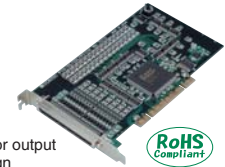
## PCI

96-pin Half Pitch | Input 32 | Output 32 | Isolated | Digital Filter | Surge & Overcurrent Protection | CE

Windows Driver | Linux Driver | LabVIEW

Opto-Isolated Digital I/O  
**GDIO-3232L2-PCI**  
**[PIO-32/32L(PCI)H]**

- 32 opto-isolated input, 32 points opto-isolated open collector output
- Fast response time (within 200μsecs.) / Power saving design
- All input signals can be used as interrupts
- Output transistor has built-in circuit protection (voltage surge, overcurrent)



RoHS Compliant

Model	GDIO-1616L2-PCI	GDIO-3232L2-PCI		
Input channels	16	32		
Output channels	16	32		
Input specifications	Type	Opto-Isolated (for sink current output)		
	Signal Level	12~24VDC		
	Interrupts	16 interrupt signals combine to one interrupt request signal as INTA	32 interrupt signals combine to one interrupt request signal as INTA	
Output specifications	Resistance	4.7kΩ		
	Type	Opto-Isolated Open Collector (current sinking type)		
	Rating	35VDC 100mA		
Response Time (Max.)	200μsec			
Internal Power	-			
Wiring Distance	50m			
I/O Address	Occupies 32 ports			
Power Consumption (Max.)	5VDC 200mA	5VDC 250mA		
Bus / Dimensions (mm)	PCI(32bit,33MHz,5V or 3.3V**1) / 121.69(L)x105.68(H)	PCI(32bit,33MHz,5V or 3.3V**1) / 176.41(L)x105.68(H)		
Connector	37pin female D-type, DCLC-J37SAF-20L9E [JAE] or equivalent	96pin female half-pitch: PCR-96LMD [HONDA Tsushin Kogyo] or equivalent		
Options	Software	ACX-PAC(W32)		
	Accessories	EPD-37A**3, EPD-37**2, DTP-3A**, DTP-4A**, CM-32(PC)E**2, DICT-37S**2, DICT-37F**2	EPD-96A**4, EPD-96**2, DTP-64(PC)**4, EPD-37A**, DTP-3A**, DTP-4A**, CCB-96**4, DICT-37S**2, DICT-37F**2, DICT-96S**4, DICT-96F**4	
	Cables/Connectors	PCA37P, PCB37P, PCA37PS, PCB37PS, CN5-D37M	PCA96P, GPCB96PS[PCB96PS], PCB96P, PCA96PS, GPCB96WS[PCB96WS], CN5-H96F	

\*1: This board requires power supply at +5 V from an expansion slot (it does not work on a machine with a +3.3V power supply only).  
 \*2: Requires optional cable PCB37P or PCB37PS.  
 \*3: The screw-up terminal block is used, whose screw does not falling off.  
 \*4: Requires optional cable PCB96P or GPCB96PS[PCB96PS].  
 \*5: Requires optional cable GPCB96WS[PCB96WS].

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