00 I/O Expansion Boards

Used with I-7188XB/EX/XG/EG

Prototype Board X002 (114mm x 170mm)



Self-test Board X004 (64mm x 38mm)



Prototype Board X005 (38mm x 64mm)



Prototype Board X006 (72mm x 65mm)



DI/O Board X107 (64mm x 37mm)



Specifications: 7 channels Open collector output; 30V/100mA ■ 6 channels DI (3.5V~30V)

PhotoMos Board X109 (64mm x 37mm)



- Specifications:

 Channels: 7 (Form A)

 Continuous load current:120mA (peak AC)
- Continuous load current: 120/IIA (pear Peak load current: 0.3A Output Power dissipation: 0.3W Output Off state leakage current: 1uA Output On resistance: 250hm Load voltage: 350V (peak AC) Input / Output Isolation: 1,500V AC

DI Board X110 (64mm x 37mm)



Specifications:

- Channel : 14
- Input Range/Type :
- Logic high level (3.5V~30V), Logic low level (0V~1V)

DO Board X111 (64mmX37mm)

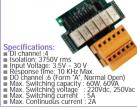


Specifications:

- Channel: 13
- Open-collector Output :70 mA / 30V max ■ Isolated : none

DI/O Board X116 (64mm X 57mm)

**Without Case*



DI/O Board X119 (72mm x 57mm)



■ 7 Channels : DO

**Without Case* ■ 7 Channels : DI

AD Board X202 (64mmX37mm)



Specifications:

- Channel : 7 ■ Resolution: 12bit
- Input Range/Type: 0 ~ 20 mA

AD Board X203 (64mmX37mm)



Specifications: Channel: 2
Resolution: 12bit
Input Range/Type: 0 ~ 20 mA
2 channels DI
6 channels DO

Used with I-7188XB/EX/XG/EG

AD, DA Board X303 (64mm x 37mm)



Specifications

One channel A/D, 12-bit Input Range: +/- 5 V

X308 (64mm x 37mm)

- One channel D/A, 12-bit ■ Output Range: +/- 5 V
- 4 channels DI ■ 6 channels DO **AD Board**

Specifications: ■ 4 channels AD

AD Board X304 (64mmX37mm)



- Specifications:

 3 channels AD
 Resolution: 12bit
 Input Range/Type: +/- 5 V
 1 channel DA
 Resolution: 12bit
 Output Range/Type: +/- 5 V
 4 channels DI
 4 channels DI
 4 channels DO

AD Board X310 (64mmX37mm)



Specifications

- Specifications:

 2 channels AD
 Resolution: 12bit
 Input Range/Type:
 Ch0:0-20 mA; Ch1:0-10 V
 2 channels DA
 Resolution: 12bit
 Output Range/Type:0-10 V
 3 channels DI
 3 channels DO

AD Board X305 (64mmX37mm)



Specifications:

- pecifications:
 7 channels AD
 Resolution: 12bit
 Input Range/Type: +/- 5 V
 1 channel DA
 Resolution: 12bit
 Output Range/Type: +/- 5 V
 2 channel DI
- 2 channels DI

2 channels DO

RS-232 Board X503 (64mm x 37mm)



Specifications:

■ COM3: RS-232 port; CTS3, RTS3, RXD3, TXD3

RS-232 Board X504 (64mm x 37mm)

Resolution : 12bit Input Range/Type : 0~10V



Specifications:

 COM3: RS-232 port;
 CTS3, RTS3, RXD3, TXD3
 COM4: RS-232 port;
 RI4, CTS4, RTS4, DSR4, DTR4, TXD4, RXD4, DCD4

RS-232 Board X505 (64mm x 37mm)



Specifications:

- COM3: RS-232 port; CTS3, RTS3, RXD3, TXD3
- COM4: RS-232 port; CTS4, RTS4, RXD4, TXD4 ■ COM5: RS-232 port; CTS5, RTS5, RXD5, TXD5

RS-232 Board X506 (64mm x 37mm)



Specifications:

COM3: RS-232 port; RXD3, TXD3, GND ■ COM4: RS-232 port; RXD4, TXD4, GND ■ COM5: RS-232 port; RXD5, TXD5, GND ■ COM6: RS-232 port; RXD6, TXD6, GND ■ COM7: RS-232 port; RXD7, TXD7, GND COM8: RS-232 port: RXD8, TXD8, GND

RS-422 Board X507 (64mm x 37mm)



Specifications COM3: RS-422 port;

- RXD3+, RXD3-, TXD3+, TXD3-4 channels DI
- 4 channels DO

I/O Expansion Boards

Used with I-7188XB/EX/XG/EG

RS-232 Board X508 (64mm x 37mm)



Specifications: COM3: RS-232 port

- TXD, RXD, RTS, CTS, GND
- 4 channels DI ■ 4 channels DO

RS-232 Board X509 (64mm x 37mm)



Specifications:

- COM3: RS-232 port TXD, RXD, GND COM4: RS-232 port TXD. RXD. GND
- 4 channels DI 4 channels DO

RS-232 Board X510 (64mm x 37mm)



Specifications:

- COM3: RS-232 port TXD, RXD, GND
- 5 channels DI
- 5 channels DO
- EEPROM: 128K x 2 bytes

RS-232 Board X510-128 (64mm x 37mm)



Specifications:

- COM3: RS-232 port TXD, RXD, GND
- 5 channels DI
- 5 channels DO ■ EEPROM: 128K bytes

RS-485 Board X511 (64mm x 37mm)



Specifications:

- COM3: RS-485 port; Data+, Data-COM4: RS-485 port; Data+, Data-
- COM5: RS-485 port; Data+, Data-

RS-232 Board X518 (64mm x 37mm)



Specifications:

- COM3: RS-232 port
- TXD, RXD, RTS, CTS, GND
- 8 channels DO

RS-232 Board X560(72mm x 65mm)



Without Case

- Specifications:

 COM3: RS-232 port: RXD3,TXD3,GND
 COM4: RS-232 port: RXD3,TXD3,GND
 COM5: RS-232 port: RXD3,TXD3,GND
 BM bytes NAND Flash:
 Endurance: 1,000,000

- Program/Erase Cycles Data Retention : 10 years

Flash Memory Board X600/X601 (64mm x 32mm)



Specifications:

- X600: 4M bytes NAND; Flash; 0.3WX601: 8M bytes NAND; Flash; 0.4W
- Endurance: 1,000,000 Program/Erase Cycles

Battery Backup SRAM Board X607 (64mm x 32mm)



Specifications:

SRAM: 128K Bytes

Encoder Input Board

X703 (64mm x 41mm)

Battery Backup SRAM Board X608 (64mm x 32mm)



Specifications:

■ SRAM: 512K Bytes

Encoder Input Board X702 (64mm x 37mm)

■ Data Retention: 10 years



- Specifications:
 2-axis encoder
 24-bit encoder counter
- Encoder counting mode: Quadrant, CW/CCW Pulse / Direction
- Max counting rate : 1 MHz Isolated power output: 5V



- 3-axis encoder
 24-bit encoder counter
 Encoder counting mode: Quadrant, CW/CCW Pulse / Direction
- Max counting rate : 1 MHz
 Isolated power output: 5V

00 I/O Expansion Boards

Used with I-7188XC

Prototype Board X000 (64mm x 32mm)



Prototype Board X001 (64mm x 70mm)



Self-test Board X003 (64mm x32mm)



DI/O Board X100 (64mm x 32mm)



Specifications:

■ 8 D/I channels

■ Input voltage range: 3.5V~30V

DI/O Board

X101 (64mm x 32mm)



Specifications: ■ 8 D/O channels

■ Type: TTL Level; Sink current: 64mA

Relay Board X102 (64mm x 32mm)



Specifications:

2-channel relay output

Contact rating;
 0.5A/125VAC; 1A/30VDC

DI/O Board X103 (64mm x 32mm)



Specifications:

■ 7 isolated D/I channels

■ Input voltage range: 3.5V~30V

DI/O Board X104 (64mm x 32mm)



Specifications:

■ 8 D/I channels

■ Each channel can be programmed to D/I or D/O

DI/O Board X105 (64mm x 32mm)



Specifications

■ 8 channel DI/O

8 channel programmable
 Non-isolated, TTL level

Non-isolated, TTL level

DI/O Board X106 (64mm x 32mm)



Specifications:

 2 channels Open collector output; 30V/250mA or 3 channels DI (3.5V~30V)

DI/O Board X119 (72mm x 57mm)



Specifications:

■ 7 Channels : DO ■ 7 Channels : DI

Without Case

A/D Board **X200** (64mm x 32mm)



Specifications:

Channel : 1

■ Input Range: 0~2.5V, 12-bit

1/0 Expansion Boards

Used with I-7188XC

DA Board X300 (64mm x 32mm)



Specifications:

- Channel: 2
- Output Range: 0~4.095V, 12-bit

AD, DA Board X301 (64mm x 32mm)



- Specifications:

 One channel AD, 12-bit Input Range: 0-2.5V

 One channel DA, 12-bit Output Range: 0-4.095V

AD. DA Board X302 (64mm x 32mm)



- Input Range: +/- 5 V One channel DA, 12-bit Output Range: +/- 5 V

Timer/Counter Board X400 (64mm x 32mm)



Specifications: 3channels 16-bit timer/counter

RS-232 Board X500 (64mm x 38mm)

Without Case



Specifications:

 COM: RS-232 port; RI4, CTS4, RTS4, DSR4, TXD4, RXD4, DCD4, DTR4

RS-232 Board X501 (64mm x 32mm)



 COM3: RS-232 port; CTS3, RTS3, RXD3, TXD3

RS-232 Board X502 (64mm x 32mm)



- CTS3, RTS3, RXD3, TXD3
- COM4: RS-232 port; RXD4, TXD4

Flash Memory Board X600/X601 (64mm x 32mm)



Specifications:

- X600: 4M bytes NAND; Flash; 0.3W
- X601: 8M bytes NAND; Flash; 0.4W Endurance: 1,000,000
- Program/Erase Cycles
- Data Retention: 10 years

Battery Backup SRAM Board X607 (64mm x 32mm)



Specifications:

SRAM: 128K Bytes

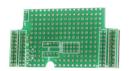
Battery Backup SRAM Board X608 (64mm x 32mm)



2-7100 I/O Expansion Boards ERIES

Used with I-7188XA

Prototype Board X000 (64mm x 32mm)



Prototype Board X001 (64mm x 70mm)



Self-test Board X003(64mm x 32mm)



DI/O Board **Without Case** **X119**(72mm x 57mm)



Specifications:
7 Channels: DO
7 Channels: DI

RS-232 Board **Without Case** **X500**(64mm x 32mm)



Specifications: ■ COM: RS-232 port; RI4, CTS4, RTS4, DSR4, TXD4, RXD4, DCD4, DTR4

RS-232 Board X560(72mm x 65mm)





Specifications:

COM3: RS-232 port; RXD3,TXD3,GND

COM4: RS-232 port; RXD3,TXD3,GND

COM5: RS-232 port; RXD3,TXD3,GND

- 8M bytes NAND Flash:
 Endurance : 1,000,000
 Program/Erase Cycles
- port; R14, C1S4, 04, RXD4, DCD4, DTR4

 ■ Program/Erase Cycles
 ■ Data Retention : 10 years

Flash Memory Board X600/X601(64mm x 32mm)



Specifications:

- X600: 4M bytes NAND; Flash
- X601: 8M bytes NAND; Flash
- Endurance: 1.000.000 Program/Erase Cycles

■ Data Retention: 10 years

Battery Backup SRAM Board X607(64mm x 32mm)



Specifications: ■ SRAM: 128K Bytes

Battery Backup SRAM Board X608(64mm x 32mm)



Specifications:

SRAM: 512K Bytes