PSC Series

Main Control Power Sequencer Controller

User Manual



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Table of Contents

Safety Instruction..... 3
PSC-1202 Description of the Panel 5
PSC-A122 Description of the Panel 6
PSC-1202 & PSC-A122 Description of the Panel.....7
Appendix

- **RS-232 Communication Protocol**.....8
- **Multi-Device Control ID Setup**.....9
- **Hex Control Commands**.....10
- **ID:0 Control Commands**.....11
- **ID:1 Control Commands**.....12
- **ID:2 Control Commands**.....13
- **ID:3 Control Commands**.....14
- **ID:4 Control Commands**.....15
- **ID:5 Control Commands**.....16
- **ID:6 Control Commands.**.....17
- **ID:7 Control Commands**.....18

Safety Instruction

1. Before installing and using this device, please read this operation manual carefully.
2. Keep this operation manual in a safe place.
3. Follow the instructions and pay attention to the warning notices.
4. Do not use accessories that are not recommended by the dealer.
5. Only use the original parts provided for installation. The manufacturer is not liable for damages caused by improper installation.
6. Ensure the power cord is properly and securely fixed.
7. Do not use three-pronged plugs or power extension cords to avoid fire or short circuits.
8. Do not insert any objects into the machine or spill any liquids on it to prevent short circuits.
9. Contact a technician if the following occurs:
    a. The power cord or plug is damaged.
    b. The machine has been exposed to water.
    c. The machine is not operating normally as per the instructions.
    d. The machine has been dropped or the casing is damaged.
    e. Only one function is displayed, which may require repairs.
10. When connecting outdoor cable systems to this machine, ensure that the cable system is properly grounded to prevent lightning strikes.
11. Be careful when installing the main unit and peripherals to avoid impact, strong shaking, or similar conditions, which may damage the equipment.
12. Do not disassemble the main unit or peripherals yourself:
    a. There is high voltage and sensitive electronic circuits inside the machine. To avoid the risk of electric shock, do not disassemble the machine yourself; if disassembly is necessary, seek help from a qualified technician.
    b. When replacing parts, the dealer must use parts approved by the original manufacturer. Unauthorized part replacements may cause electrical short circuits or fires.
13. Do not block the ventilation holes on the casing: This product contains heat sinks, and if the ventilation holes are blocked, the main unit may overheat and malfunction.
14. Do not operate the machine under conditions exceeding the specified temperature, humidity, or power levels: The operating temperature should be between 0°C and 40°C (32°F to 104°F), and the humidity should be below 90%.

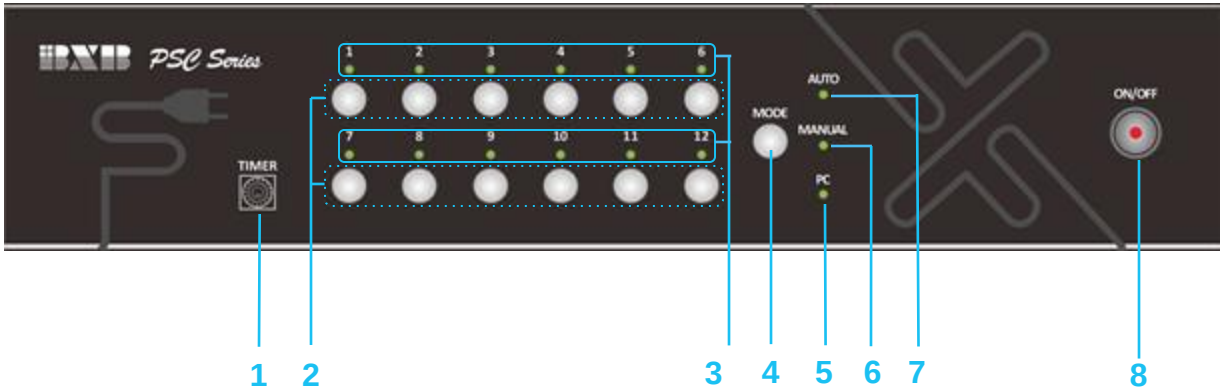
Safety Instruction

15. Do not expose the main unit to rain or high humidity, and avoid using it in damp places. Store it in a dry location, as moisture or water vapor may damage the internal components. If used outdoors, proper protection is required.
16. Do not use strong or abrasive cleaning agents to clean the main unit and peripherals. If the machine surface is dusty or dirty, wipe it with a slightly damp cloth; do not use liquid or spray cleaners.
17. Avoid rapidly switching the power on and off: Whether the machine is operating or turned off, avoid rapidly switching the power to ensure that the sensitive internal circuits are not damaged by power surges, which may cause malfunctions.
18. **Caution:** When performing electrostatic discharge (ESD) treatment on printed circuit boards, proper ESD safety measures must be taken, and grounding must be correctly implemented.
19. **Caution:** Before plugging into a power outlet, ensure that the power input is adjusted correctly according to local power specifications, or the machine may be damaged.

Warning: The casing of the machine should only be opened by qualified service personnel. There are no user-serviceable parts inside the machine. Before removing the cover, the technician must unplug the power, and under no circumstances should the power be reconnected until the cover is completely closed.

PSC-1202 Description of the Panel

Front Panel



1. T**TIMER:** 16-segment sequential time adjustment switch; adjusts the interval time for the 12 sequentially controlled AC outlets on the back of the unit, for turning them on or off.

16-Segment Switch	0	1	2	3	4	5	6
Delay Time	No Delay	0.5s	1s	1.5s	2s	2.5s	3s

7	8	9	A	B	C	D	E	F
3.5s	4s	4.5s	5s	5.5s	6s	6.5s	7s	7.5s

1. **1~12 Manual Buttons:** Select power switches for 12 groups.

3. **1~12 LED Power Switch Indicators:** Displays the status of power switches for each group.
4. **MODE Selection Button:**Automatically starts with a time delay, Manually starts using individual buttons.
5. **PC Control Software Connection Indicator.**
6. **MANUAL Mode Indicator:** Shows that manual start mode is active.
7. **AUTO Mode Indicator:** Shows that automatic start mode is active.
8. **Main Power Switch:** Controls overall power for the unit.

PSC-A122 Description of the Panel

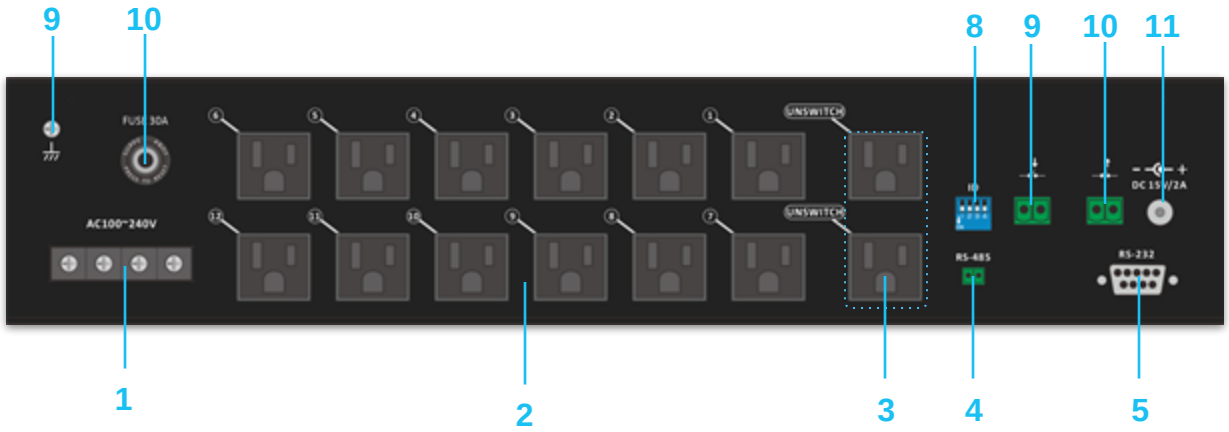
Front Panel



1. Power Switch for the Main Unit

PSC-1202 & PSC-A122 Description of the Panel

Rear Panel

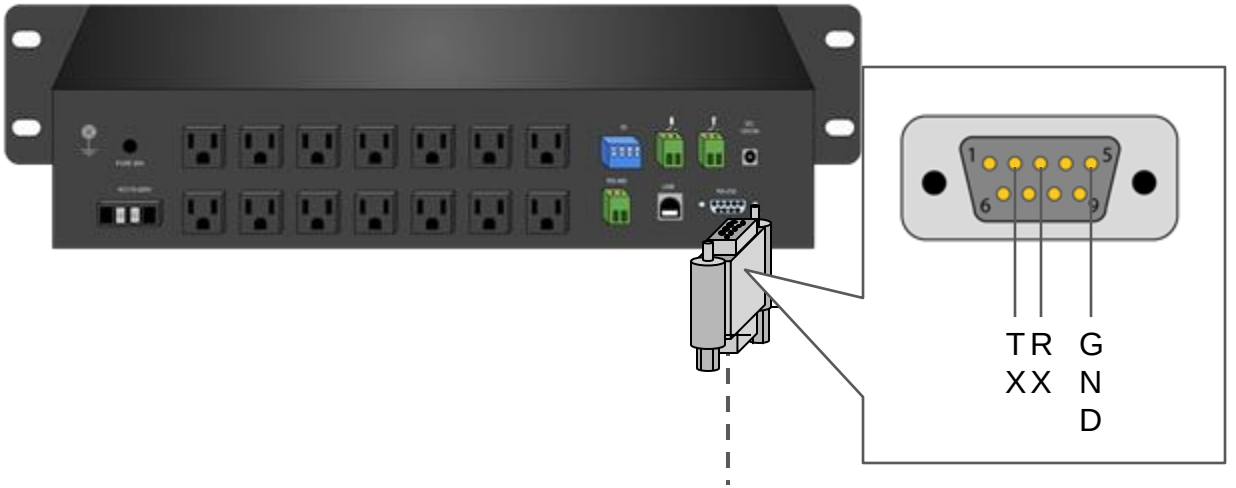


1. **AC 100 ~ 240V Power Input Terminal:** The main power source for the 14-port backplane.(From left to right: Ground, Neutral, Live, Ground)
2. **Ports 1~12 Sequential Power Control Outlets:** Correspond to the buttons and indicators on the front panel.
3. **UNSWITCHED Ports:** 2 direct power supply outlets that provide power when AC 100 ~ 240V is input, not controlled by the front panel buttons.
4. **RS-485 Communication Port:** Can control up to 8 units (ID: 0~8, ID: 0 is the master unit).
5. **RS-232 Communication Port:** Connects to a PC and works with BXB control software (for RS-232 commands, please refer to the appendix).
   Pin 2: Transmitted Data (Tx) / **Pin 3:** Received Data (Rx) / **Pin 5:** Signal Ground (G)
6. Main Unit Chassis Ground Terminal.
7. **Overload Circuit Protector:** Automatically cuts off all AC power when the load exceeds 30A or in the event of a short circuit.
8. **ID:** Control identification DIP switch; can control up to 8 units of the same model for multi-power control purposes (for multi-unit control ID DIP switch settings, refer to the appendix).
9. **External Trigger Dry Contact:** When this contact is shorted, it triggers the main unit's All Call state.
10. **Activation Dry Contact:** When the main unit is activated, the dry contact is shorted.
11. **Main Unit Operating Voltage:** DC15V / 1.3A (Please use the included BXB transformer).

Appendix

RS-232 Communication Protocol

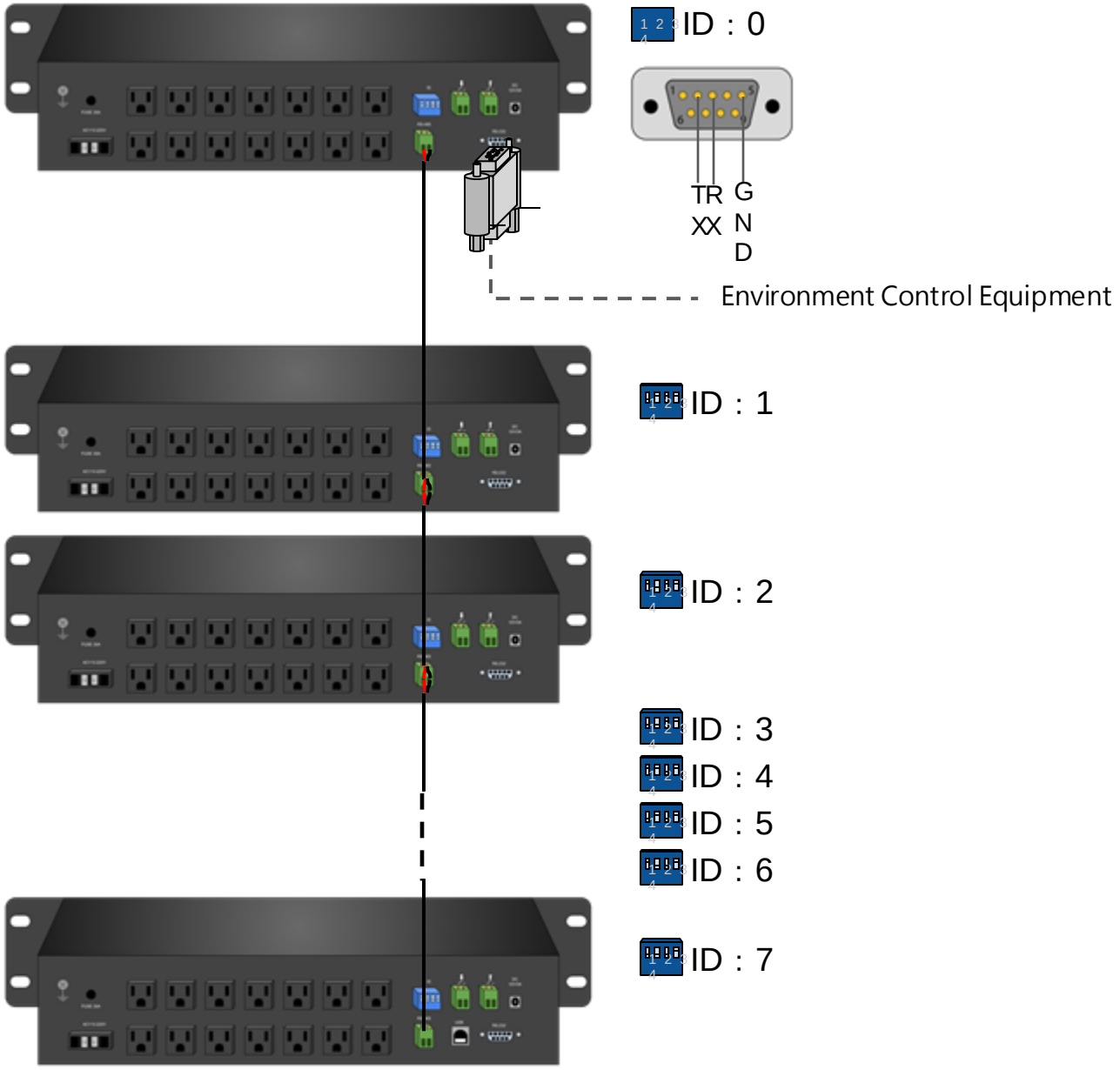
RS-232 Port Pin Description



Communication Mode	RS-232
Baud Rate	9600
Data Bits	8
Parity Check	NA
Stop Bits	1
Flow Control	NA

Appendix

Multi-Device Control ID Setup



Appendix

Hex Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All Ports	01	00~07 Note 1	00	00	0A	00	FF	End_Code Note 2
Close All Ports	01	00~07 Note 1	00	00	0A	00	00	End_Code Note 2
Open Single Port	01	00~07 Note 1	00	00	0A	00	F1~FC 註3	End_Code Note 2
Close Single Port	01	00~07 Note 1	00	00	0A	00	01~0C 註4	End_Code Note 2

Note 1: Device numbers 0007 correspond to ID0ID7.
Note 2: End_Code: Byte1 xor Byte2 xor Byte3 xor Byte4 xor Byte5 xor Byte6 xor Byte7.
Note 3: Open codes F1FC correspond to Ports 112 being turned on.
Note 4: Close codes 010C correspond to Ports 112 being turned off.

Appendix

ID:0 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	00	00	00	0A	00	FF	F4
Close Al	01	00	00	00	0A	00	00	0B
Port 1 Open	01	00	00	00	0A	00	F1	FA
Port 1 Close	01	00	00	00	0A	00	01	0A
Port 2 Open	01	00	00	00	0A	00	F2	F9
Port 2 Close	01	00	00	00	0A	00	02	09
Port 3 Open	01	00	00	00	0A	00	F3	F8
Port 3 Close	01	00	00	00	0A	00	03	08
Port 4 Open	01	00	00	00	0A	00	F4	FF
Port 4 Close	01	00	00	00	0A	00	04	0F
Port 5 Open	01	00	00	00	0A	00	F5	FE
Port 5 Close	01	00	00	00	0A	00	05	0E
Port 6 Open	01	00	00	00	0A	00	F6	FD
Port 6 Close	01	00	00	00	0A	00	06	0D

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	00	00	00	0A	00	F7	FC
Port 7 Close	01	00	00	00	0A	00	07	0C
Port 8 Open	01	00	00	00	0A	00	F8	F3
Port 8 Close	01	00	00	00	0A	00	08	03
Port 9 Open	01	00	00	00	0A	00	F9	F2
Port 9 Close	01	00	00	00	0A	00	09	02
Port 10 Open	01	00	00	00	0A	00	FA	F1
Port 10 Close	01	00	00	00	0A	00	0A	01
Port 11 Open	01	00	00	00	0A	00	FB	F0
Port 11 Close	01	00	00	00	0A	00	0B	00
Port 12 Open	01	00	00	00	0A	00	FC	F7
Port 12 Close	01	00	00	00	0A	00	0C	07

Appendix

ID:1 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	01	00	00	0A	00	FF	F5
Close Al	01	01	00	00	0A	00	00	0A
Port 1 Open	01	01	00	00	0A	00	F1	FB
Port 1 Close	01	01	00	00	0A	00	01	0B
Port 2 Open	01	01	00	00	0A	00	F2	F8
Port 2 Close	01	01	00	00	0A	00	02	08
Port 3 Open	01	01	00	00	0A	00	F3	F9
Port 3 Close	01	01	00	00	0A	00	03	09
Port 4 Open	01	01	00	00	0A	00	F4	FE
Port 4 Close	01	01	00	00	0A	00	04	0E
Port 5 Open	01	01	00	00	0A	00	F5	FF
Port 5 Close	01	01	00	00	0A	00	05	0F
Port 6 Open	01	01	00	00	0A	00	F6	FC
Port 6 Close	01	01	00	00	0A	00	06	0C

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	01	00	00	0A	00	F7	FD
Port 7 Close	01	01	00	00	0A	00	07	0D
Port 8 Open	01	01	00	00	0A	00	F8	F2
Port 8 Close	01	01	00	00	0A	00	08	02
Port 9 Open	01	01	00	00	0A	00	F9	F3
Port 9 Close	01	01	00	00	0A	00	09	03
Port 10 Open	01	01	00	00	0A	00	FA	F0
Port 10 Close	01	01	00	00	0A	00	0A	00
Port 11 Open	01	01	00	00	0A	00	FB	F1
Port 11 Close	01	01	00	00	0A	00	0B	01
Port 12 Open	01	01	00	00	0A	00	FC	F6
Port 12 Close	01	01	00	00	0A	00	0C	06

Appendix

ID:2 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	02	00	00	0A	00	FF	F6
Close Al	01	02	00	00	0A	00	00	09
Port 1 Open	01	02	00	00	0A	00	F1	F8
Port 1 Close	01	02	00	00	0A	00	01	08
Port 2 Open	01	02	00	00	0A	00	F2	FB
Port 2 Close	01	02	00	00	0A	00	02	0B
Port 3 Open	01	02	00	00	0A	00	F3	FA
Port 3 Close	01	02	00	00	0A	00	03	0A
Port 4 Open	01	02	00	00	0A	00	F4	FD
Port 4 Close	01	02	00	00	0A	00	04	0D
Port 5 Open	01	02	00	00	0A	00	F5	FC
Port 5 Close	01	02	00	00	0A	00	05	0C
Port 6 Open	01	02	00	00	0A	00	F6	FF
Port 6 Close	01	02	00	00	0A	00	06	0F

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	02	00	00	0A	00	F7	FE
Port 7 Close	01	02	00	00	0A	00	07	0E
Port 8 Open	01	02	00	00	0A	00	F8	F1
Port 8 Close	01	02	00	00	0A	00	08	01
Port 9 Open	01	02	00	00	0A	00	F9	F0
Port 9 Close	01	02	00	00	0A	00	09	00
Port 10 Open	01	02	00	00	0A	00	FA	F3
Port 10 Close	01	02	00	00	0A	00	0A	03
Port 11 Open	01	02	00	00	0A	00	FB	F2
Port 11 Close	01	02	00	00	0A	00	0B	02
Port 12 Open	01	02	00	00	0A	00	FC	F5
Port 12 Close	01	02	00	00	0A	00	0C	05

Appendix

ID:3 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	03	00	00	0A	00	FF	F7
Close Al	01	03	00	00	0A	00	00	08
Port 1 Open	01	03	00	00	0A	00	F1	F9
Port 1 Close	01	03	00	00	0A	00	01	09
Port 2 Open	01	03	00	00	0A	00	F2	FA
Port 2 Close	01	03	00	00	0A	00	02	0A
Port 3 Open	01	03	00	00	0A	00	F3	FB
Port 3 Close	01	03	00	00	0A	00	03	0B
Port 4 Open	01	03	00	00	0A	00	F4	FC
Port 4 Close	01	03	00	00	0A	00	04	0C
Port 5 Open	01	03	00	00	0A	00	F5	FD
Port 5 Close	01	03	00	00	0A	00	05	0D
Port 6 Open	01	03	00	00	0A	00	F6	FE
Port 6 Close	01	03	00	00	0A	00	06	0E

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	03	00	00	0A	00	F7	FF
Port 7 Close	01	03	00	00	0A	00	07	0F
Port 8 Open	01	03	00	00	0A	00	F8	F0
Port 8 Close	01	03	00	00	0A	00	08	00
Port 9 Open	01	03	00	00	0A	00	F9	F1
Port 9 Close	01	03	00	00	0A	00	09	01
Port 10 Open	01	03	00	00	0A	00	FA	F2
Port 10 Close	01	03	00	00	0A	00	0A	02
Port 11 Open	01	03	00	00	0A	00	FB	F3
Port 11 Close	01	03	00	00	0A	00	0B	03
Port 12 Open	01	03	00	00	0A	00	FC	F4
Port 12 Close	01	03	00	00	0A	00	0C	04

Appendix

ID:4 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	04	00	00	0A	00	FF	F0
Close Al	01	04	00	00	0A	00	00	0F
Port 1 Open	01	04	00	00	0A	00	F1	FE
Port 1 Close	01	04	00	00	0A	00	01	0E
Port 2 Open	01	04	00	00	0A	00	F2	FD
Port 2 Close	01	04	00	00	0A	00	02	0D
Port 3 Open	01	04	00	00	0A	00	F3	FC
Port 3 Close	01	04	00	00	0A	00	03	0C
Port 4 Open	01	04	00	00	0A	00	F4	FB
Port 4 Close	01	04	00	00	0A	00	04	0B
Port 5 Open	01	04	00	00	0A	00	F5	FA
Port 5 Close	01	04	00	00	0A	00	05	0A
Port 6 Open	01	04	00	00	0A	00	F6	F9
Port 6 Close	01	04	00	00	0A	00	06	09

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	04	00	00	0A	00	F7	F8
Port 7 Close	01	04	00	00	0A	00	07	08
Port 8 Open	01	04	00	00	0A	00	F8	F7
Port 8 Close	01	04	00	00	0A	00	08	07
Port 9 Open	01	04	00	00	0A	00	F9	F6
Port 9 Close	01	04	00	00	0A	00	09	06
Port 10 Open	01	04	00	00	0A	00	FA	F5
Port 10 Close	01	04	00	00	0A	00	0A	05
Port 11 Open	01	04	00	00	0A	00	FB	F4
Port 11 Close	01	04	00	00	0A	00	0B	04
Port 12 Open	01	04	00	00	0A	00	FC	F3
Port 12 Close	01	04	00	00	0A	00	0C	03

Appendix

ID:5 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	05	00	00	0A	00	FF	F1
Close Al	01	05	00	00	0A	00	00	0E
Port 1 Open	01	05	00	00	0A	00	F1	FF
Port 1 Close	01	05	00	00	0A	00	01	0F
Port 2 Open	01	05	00	00	0A	00	F2	FC
Port 2 Close	01	05	00	00	0A	00	02	0C
Port 3 Open	01	05	00	00	0A	00	F3	FD
Port 3 Close	01	05	00	00	0A	00	03	0D
Port 4 Open	01	05	00	00	0A	00	F4	FA
Port 4 Close	01	05	00	00	0A	00	04	0A
Port 5 Open	01	05	00	00	0A	00	F5	FB
Port 5 Close	01	05	00	00	0A	00	05	0B
Port 6 Open	01	05	00	00	0A	00	F6	F8
Port 6 Close	01	05	00	00	0A	00	06	08

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	05	00	00	0A	00	F7	F9
Port 7 Close	01	05	00	00	0A	00	07	09
Port 8 Open	01	05	00	00	0A	00	F8	F6
Port 8 Close	01	05	00	00	0A	00	08	06
Port 9 Open	01	05	00	00	0A	00	F9	F7
Port 9 Close	01	05	00	00	0A	00	09	07
Port 10 Open	01	05	00	00	0A	00	FA	F4
Port 10 Close	01	05	00	00	0A	00	0A	04
Port 11 Open	01	05	00	00	0A	00	FB	F5
Port 11 Close	01	05	00	00	0A	00	0B	05
Port 12 Open	01	05	00	00	0A	00	FC	F2
Port 12 Close	01	05	00	00	0A	00	0C	02

Appendix

ID:6 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	06	00	00	0A	00	FF	F2
Close Al	01	06	00	00	0A	00	00	0D
Port 1 Open	01	06	00	00	0A	00	F1	FC
Port 1 Close	01	06	00	00	0A	00	01	0C
Port 2 Open	01	06	00	00	0A	00	F2	FF
Port 2 Close	01	06	00	00	0A	00	02	0F
Port 3 Open	01	06	00	00	0A	00	F3	FE
Port 3 Close	01	06	00	00	0A	00	03	0E
Port 4 Open	01	06	00	00	0A	00	F4	F9
Port 4 Close	01	06	00	00	0A	00	04	09
Port 5 Open	01	06	00	00	0A	00	F5	F8
Port 5 Close	01	06	00	00	0A	00	05	08
Port 6 Open	01	06	00	00	0A	00	F6	FB
Port 6 Close	01	06	00	00	0A	00	06	0B

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	06	00	00	0A	00	F7	FA
Port 7 Close	01	06	00	00	0A	00	07	0A
Port 8 Open	01	06	00	00	0A	00	F8	F5
Port 8 Close	01	06	00	00	0A	00	08	05
Port 9 Open	01	06	00	00	0A	00	F9	F4
Port 9 Close	01	06	00	00	0A	00	09	04
Port 10 Open	01	06	00	00	0A	00	FA	F7
Port 10 Close	01	06	00	00	0A	00	0A	07
Port 11 Open	01	06	00	00	0A	00	FB	F6
Port 11 Close	01	06	00	00	0A	00	0B	06
Port 12 Open	01	06	00	00	0A	00	FC	F1
Port 12 Close	01	06	00	00	0A	00	0C	01

Appendix

ID:7 Control Commands

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Open All	01	07	00	00	0A	00	FF	F3
Close Al	01	07	00	00	0A	00	00	0C
Port 1 Open	01	07	00	00	0A	00	F1	FD
Port 1 Close	01	07	00	00	0A	00	01	0D
Port 2 Open	01	07	00	00	0A	00	F2	FE
Port 2 Close	01	07	00	00	0A	00	02	0E
Port 3 Open	01	07	00	00	0A	00	F3	FF
Port 3 Close	01	07	00	00	0A	00	03	0F
Port 4 Open	01	07	00	00	0A	00	F4	F8
Port 4 Close	01	07	00	00	0A	00	04	08
Port 5 Open	01	07	00	00	0A	00	F5	F9
Port 5 Close	01	07	00	00	0A	00	05	09
Port 6 Open	01	07	00	00	0A	00	F6	FA
Port 6 Close	01	07	00	00	0A	00	06	0A

Command Functions	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Port 7 Open	01	07	00	00	0A	00	F7	FB
Port 7 Close	01	07	00	00	0A	00	07	0B
Port 8 Open	01	07	00	00	0A	00	F8	F4
Port 8 Close	01	07	00	00	0A	00	08	04
Port 9 Open	01	07	00	00	0A	00	F9	F5
Port 9 Close	01	07	00	00	0A	00	09	05
Port 10 Open	01	07	00	00	0A	00	FA	F6
Port 10 Close	01	07	00	00	0A	00	0A	06
Port 11 Open	01	07	00	00	0A	00	FB	F7
Port 11 Close	01	07	00	00	0A	00	0B	07
Port 12 Open	01	07	00	00	0A	00	FC	F0
Port 12 Close	01	07	00	00	0A	00	0C	00



BXB Electronics Co., Ltd.

6F-1, No.288-5, Xinya Rd., Qianzhen Dist., Kaohsiung City 80673, Taiwan

TEL/ +886（7）9703838

FAX/ +886（7）9703883

Website/ www.bxbsystem.com

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