

# Extra Communication Card Quick Start Guide

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## **Product Overview**



## Extra Communication Card

# **Product Overview**

Extra communication card is a device with additional interface functionality. This device can provide a variety different applications for UPS. The communication interfaces of extra communication card are listed below:

- RS232 port
- COMM. Slot
- Dry Contac Output
- Dry Contact Input
- External Battery Cabinet Temperature
- LED

#### RS232 port

The RS232 port can use for not only monitoring UPS status via monitoring software but also setting dry contact function with supplied utility tool.

#### **Communication Slot**

This extra communication card has facility of internally fitted optional SNMP card.

#### **Dry Contact Output**

These 6 dry contact outputs can be set to normally open or normally close by setting jumper. Please refer to the Chapter 5 Jumper Set-up for the details. It's also able to set the feature of each dry contact output port though the Extra Com Config tool software. Please refer to Chapter 4 Configuration for the details.



#### **Dry Contact Input**

There are two sets of dry contact input to receive external signals for UPS to take response.ace cards available to meet various communication needs, i.e. dry contact relay card and SNMP/WEB card.



### **External Battery Cabinet Temperature (Option)**

You may order "sensor kit" (optional accessory) to detect the temperature of external battery cabinet.



#### LED

The green LED represents operation status of the extra communication card. Please refer to below table.

Color	Status	Definition
Green		Communications: On/0.1s, Off/0.4s. Un-Connection: On/0.1s, Off/0.41.
	Off	ID conflict or Power off

## Installation

Step 1. Remove cover of slot on the STS module.



Step 2. Insert extra communication card into slot.



Step 3. The cover of extra communication card should attach close to STS module. Secure the extra communication card to the STS module chassis with 2 screws.



Step 4. Use RJ45 cable to connect UPS and equipment to implement remote monitoring and control.



# Configuration

Step 1: Please access www.power-software-download.com to install utility tool for Extra Communication in your computer. After software is installed successfully, it will pop up a plug icon in the tray.

RS232 Setting	Dry Contact Output Fort Config				
ComPort COM12 •	PORTE		PORTE		
Eved Rate	Current Setting	Load On Invewster		Losd On Hypere	
2400 •	Modify Setting Current Setting	Load On Invester FORTS Load On Battery		Load On Bypess PORTA Battery Low	
Excele Setting	Modify Setting	Load On Battery PORTS	(. <b>•</b> .)	Battery Low	
Setting Confirm	Current Setting	Bypas: Input Abnormal		Battery Test Fail	
Default Setting	Modify Setting	Bypan Input Abaonnal	•	Battery Test Fail	•

Fig. 6

Step 3: Click "Read Setting" button to check the current setting of the dry contact output port. Refer to screen in Fig. 7.

R2232 Setting	Dry Contact Output Fort Config			
Com Port				
сон12 -	PORTI		PORT2	
Baud Rate	Cument Setting Low! On Investment		Loed On Bygan	
2400 -	Modify Setting Load On Investor		Lord On Bygast	
	PORTS		PORTA	
Excute Setting	Current Setting   Losd On Bettery		Bettery Low	
	Modaty Setting Load On Bettery	•	Bettery Low	
	PORTS		PORTS	
Setting Confirm	Current Setting Bypere Input Abnormal		Buttery Test Foll	
Default Setting	Modify Setting Bypest Input Abnormal		Battary Test Fiel	
	Read Setting		and a state of the	

Fig. 7

#### Step 4: Check all settings.

There are 20 messages to select for contact and listed in table 1. Once dry contact output settings are selected, click "Setting Confirm" button.

Contact	Message	Description
1	Load on inverter	The UPS is working normally.
2	Load on bypass	The UPS is in Bypass mode.
3	Load on battery	The UPS is in battery mode.
4	Low battery	The battery voltage is low.
5	Bypass input abnormal	The bypass voltage or frequency is abnor- mal.
6	Battery test failure	Performs the battery test. The battery test fails.
7	Internal communication failure	DSP and MCU stop communication in power module.
8	External parallel communication failure	Communication error between power mod- ules
9	Output overload warning/shutdown	Connected load is over rated output of the UPS.
10	Power module fault shutdown	The module fails and the UPS shuts down.
11	Power module warning	The module has errors, but the UPS can still function normally.
12	EPO Active	Urgently power off the UPS.
13	Maintain bypass	The UPS transfers to maintain bypass mode.
14	Module over temperature warning/shutdown	The temperature is too high.
15	Battery replacement	Overdue for battery replacement (Compared with system setup.)
16	Bypass over temperature warning/shutdown	Bypass "static transfer switch" is over temperature.
17	Bypass static switch fault	Bypass "static transfer switch" is over temperature.
18	Line AC fail	Power failure.
19	Bypass failure	Bypass source fails.
20	Redundancy failure	Redundancy setting error.

R5232 Setting	Day Contact Output Fost Config	
ComPort COM12 -	PORTL	IORT2
Baud Rate	Setpit Lord On Inverter	Losd On Bypess
2400 👻	Modify Setting States to Balance	🖌 Lord On Bypers
	FOR 51 Craneal Setting Load On Bittery	FORTA Battery Low
Setp2	Modify Setting Lood On Battery	<ul> <li>Battery Low</li> </ul>
Setting Confirm	POR75 Current Setting Bypost lapot Abnormel	POR 16 Battery Test Fail
Default Setting	Kosiity Setting Bypan Input Abacurusi	

Fig. 8

"Default Setting" button: It's to set all configurations back to default value. Refer to Fig. 9.

RS232 Setting	Day Contact Out	put Fost Config			
Com Port COM12 •		PORTH		PORTO	
Eved Rate	Current Setting	Load On Invewster		Load On Hypers	
2400 👻	Modify Setting	Losd On Invewster	•	Load On Bypess	•
	Cuntent Setting	PORTA Load On Battery		PORT# Battery Low	
Excute Setting	Modify Setting	Loed On Battery	(s.•	Battery Low	
		PORTS.		PORTS.	
Setting Confirm	Current Setting	Bypas: Input Abaonnal		Battery Text Fail	
	Modify Setting	Bypan Input Abaormal	•	Battery Test Fail	•
Default Setting	Read Setting				

Fig. 9

#### Jumper Set-up

Dry contact output port can be set normally open or normally close from JP1 to JP6. The 3-pin connectors can be easily found just nearby relay. The ID number of the Extra communication card can be set 60 or 61 in JS1. Please refer to Fig. 10.



Fig. 10

Connect pin 1 and pin 2 of JP1 to set normally open type for dry contact output port. Same connection is applied from JP1 to JP6. Refer to Fig. 11.



Connect pin 2 and pin 3 of JP1 to set normally close type for dry contact output port. Same connection is applied from JP1 to JP6. Refer to Fig. 12.



Fig. 12

Please connect pin 1 and pin 2 of JS1 to set ID number of Extra communication card as 60 in JS1. Refer to Fig. 13.





Please connect pin 2 and pin 3 of JS1 to set ID number of Extra communication card as 61in JS1. Refer to Fig. 14.



Fig. 14