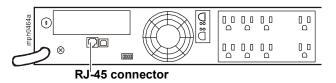


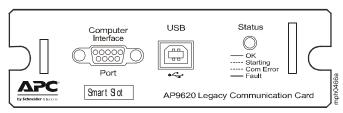
Legacy Communications SmartSlotTM Card (AP9620) — Installation and Start-up Guide

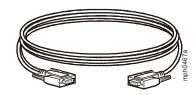


Warning: The Legacy Communications SmartSlot Card must only be used in a UPS that has an RJ-45 connector used for serial communications. These units also have plastic tabs extending from the SmartSlot.



Contents of Package





Legacy Communications SmartSlot Card

Serial Cable



Note: For USB operation, use the USB cable supplied with the UPS or a standard USB 2.0 compliant A-B cable.

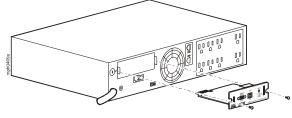
Note: Connecting accesories to the Computer Interface Port is not supported.

Installing the card in the UPS



Note: You can install the card while the UPS is turned on. Both screws must be reinstalled in order to ensure proper operation of the card.

- Remove the two screws holding the cover on the SmartSlot with a #2 Phillips-head screwdriver.
- 2. Orient the card with the card guides and slide it in. If the tabs on the housing do not match the slots on the card, the card is not compatible with the UPS.
- 3. Reinstall both screws removed in step 1.



Card status indicators

Solid Green The card is operating correctly.

Flashing Green The card is initializing. After a few seconds it should turn solid green.

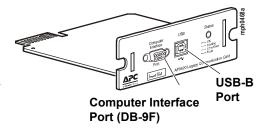
Solid Red The card is incompatible with this UPS. Check apc.com for a firmware update.

Flashing Red The card has a fault. Call APC technical support.

Connecting the communication cable

You must choose to use either the USB or the Computer Interface Port. Only one can be functional at a time.

Note: The communication interfaces on the UPS are disabled when the card is installed.



UPS Operations with SmartSlot card. The table documents how UPS devices operate with the card.

USB:

Types of Interface

UPS: UPS operational issue

Smart Serial: DB-9F smart signaling interface

Simple: Simple Signal interface via DB-9F

USB-B port on the card.

	INTER -FACE	COMMAND OR FUNCTION	HISTORIC OPERATION	OPERATION WITH LEGACY COMMUNICATIONS SMARTSLOT CARD INSTALLED
1	Simple	Remote On	Not always supported. Some UPS devices	Remote On is enabled when AC utility power is on OR
			allowed starting with the Remote On signal	when AC power has been off for less than 10 minutes.
			when AC utility power was off.	
2	UPS	On button operation	UPS turned on immediately.	UPS turns on after the configured Turn on Delay. The
				default setting is "0" (zero) - immediately turn on.
3	UPS	Switched Outlets	Were not supported.	Where relevant, switched outlet operation is disabled: all
4	UPS	RJ-45 comms port	Was not supported.	the UPS outlets function simultaneously. (The Main Outlet Group <i>might</i> turn on slightly before, and turn off slightly after, the other outlets). Switched outlet-related LCD menu screens are not accessible. Disabled.
5	UPS	USB comms port	Differed, depending on setup.	Disabled.
6	UPS	Self-test Operation	Could always be initiated.	1. A self-test is enabled on extended-run UPS devices
U	015	Sen-test Operation	Could always be initiated.	with more than 8 hours runtime. 2. A UPS might prevent
				a self-test if the battery charge is < 70%.
7	UPS	Runtime Calibration	A runtime calibration could be initiated,	Two conditions must be met: 1. The battery charge must
,	015	realitime Canoration	regardless of load and battery charge.	be 100%. 2. The load must be => 10% of the UPS rating.
8	Smart	Test lights and	The UPS beeped for 1.5 seconds	Beep operation is determined by the UPS; some newer
O		beeper	The OTB beeped for 1.3 seconds	UPS devices have a 5 second beep.
9		Simulate Power	The UPS operated momentarily on battery.	The UPS does not go to battery operation, but
		Failure	The of soperated momentarity on statery.	temporarily remembers this command (in order to enable
	Seriar	1 unui c		the Shutdown on Battery command).
10	Smart	Establishment of	Serial communications had to be re-	No change.
10		Communications	established each time the UPS turns on.	To change.
11		Minimum battery	After a complete discharge of batteries in an	The UPS reads the value as a %, and restarts as follows:
• •	Serial	capacity to restart	outage, the UPS restarted when the battery	0%—an immediate restart; 15%—with runtime of 90
	~ ********		charge reached this value.	secs.; 30%—with runtime of 180 secs.; up to a
				maximum 90%—restarts with runtime of 240 secs.
12	Smart	Battery Replacement	Any 8 characters were supported.	The date format must be mm-dd-yy, with any separating
	Serial	Date	3 11	character ("-" here) supported. Dates prior to the UPS
				manufacture date are not accepted.
13	Smart	Alarm delay after	On some UPS devices you could set the	UPS devices can enable, disable or mute the alarm. If
	Serial	line fail	beeper to sound after being on battery for 30	beeping at low battery or on battery is selected, the alarm
			secs, or at low battery. All UPS devices	is disabled, but the setting is displayed on the LCD
			could mute and disable the beeper.	screen.
14	Smart	UPS Model	Returned the device name, e.g. Smart-UPS	Returns the closest equivalent historical name, which
	Serial/		750VA	might be different from the name displayed on the LCD
	USB			screen.
15	Smart	Nominal Battery	Reported the nominal battery voltage of the	The nominal battery voltage is not known so the card
	Serial	Voltage	UPS.	"estimates" it and returns 024, 048, or 192; if an estimate
				is impossible, the card reports 024.
16	Smart	Upper Transfer		For SURTD UPS devices, the card displays the
_	Serial	Voltage		corresponding bypass limit; but the allowable range of
17	Smart	Lower Transfer		values is determined by the voltage setting of the UPS.
	Serial	Voltage		, , , ,
18	USB	DelayBeforeReboot	The Turn Off Delay setting was applied	The Turn Off Delay setting is applied before the UPS is
			before turning the UPS off, the UPS	turned off, the UPS remains off for the time specified,
			remained off for the time specified, and was	* **
			then turned back on immediately.	turned back on.
19	USB	USB communication	Not present on SURTD UPS devices.	Not functional when installed in a SURTD UPS device.

Customer support and warranty information is available at the APC Web site, www.apc.com.