SANYO DENKI

1-Gigabit Ethernet Supported

SANUPS LAN Interface Card

Installed in a UPS, this product enables users to take necessary measures swiftly via a network. UPS status management can be done remotely from computers.

High-Speed Communication

- This card supports 1-Gigabit Ethernet for use in high-speed, high-capacity networks such as data centers and other various network environments. Directly connected to a UPS, it enables high-speed download of collected data.

Supports Shutdown of Various Servers

- In addition to SSH (Secure Shell),(1) this card also supports REST API,(2) which is simple and highly versatile, for shutting down servers. This enables servers that only support REST API to be shut down.

Improved User Convenience

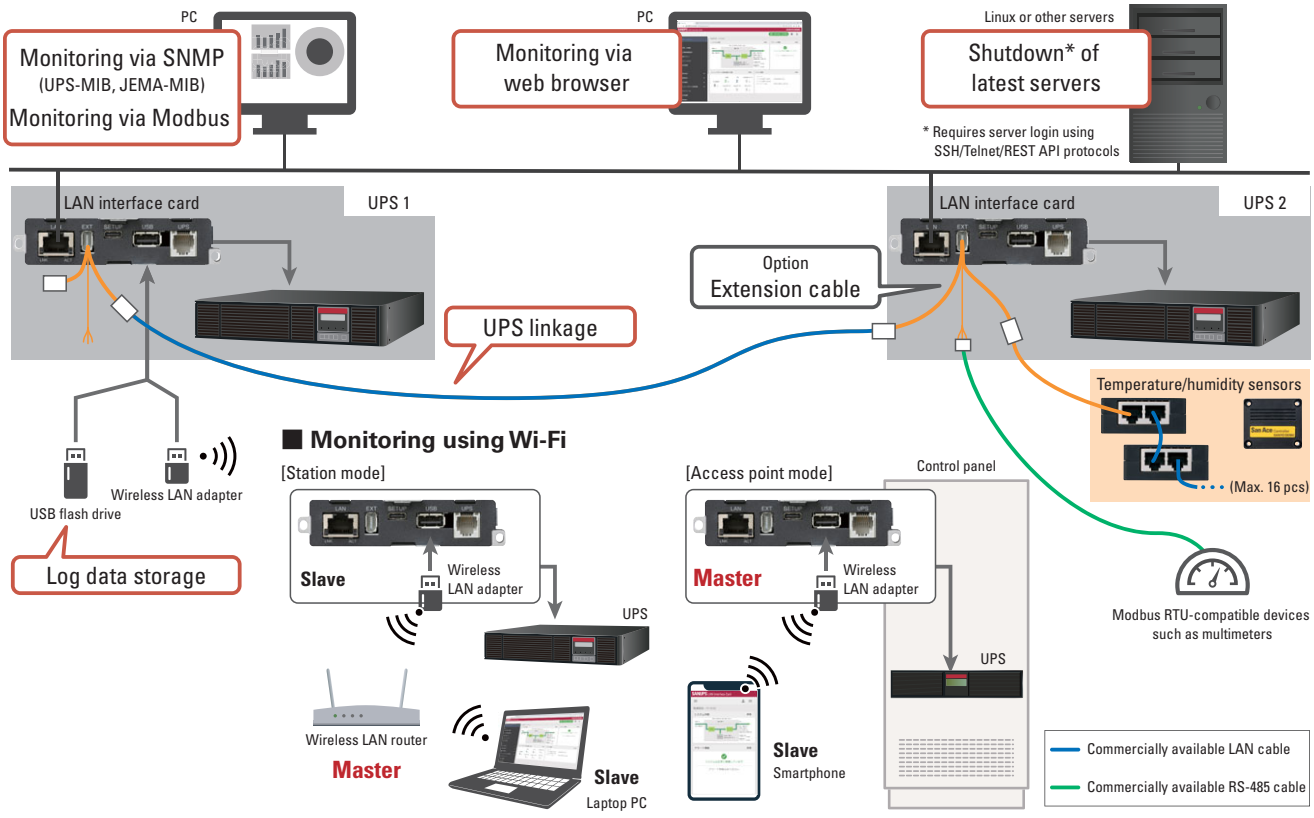
- The script setup wizard makes it easy to configure shutdown settings. Wireless communication(3) is supported for remote monitoring from smartphones and tablet PCs. Even without a PC, UPS operational information can be easily saved by simply connecting a USB flash drive.

Extended Functions with Optional Cable

- With temperature and humidity sensors connected using an optional extension cable, the temperature and humidity of the operating environment can be measured, notifying users of any changes in advance.
- With the cable, data of Modbus RTU-compatible(4) multimeters can be collected, enabling network-based monitoring of them and UPSs.
- By configuring two UPSs in linkage, the cable enables the shutdown of computers in power redundancy. Moreover, up to 5 UPSs can operate synchronously as a single power supply system.(5)

(1) Communication protocol secured by data encryption.
(2) Communication method used for web communication.
(3) Requires a commercially available LAN adapter dongle that we recommend.
(4) Communication method used with Modbus RS-485 cables.
(5) Redundant and synchronous operations cannot be performed simultaneously.

■ Usage example



Specifications

Model no.		PRLANIF031
Functions		• Automatic start-up/shutdown of computers (SSH, Telnet, REST API) • Shutdown of computers in power redundancy(1) • Synched stop/start of multiple UPSs(1), (2) • Automatic computer startup at power restoration • Scheduled operation • UPS status display (Web browser and SSH/Telnet supported) • SNMP agent (RFC1628, JEMA-MIB) • Sending/Receiving emails • NTP (Network Time Protocol) supported • Downloading/Uploading UPS setting values • Test functions (script execution, sending emails, sending SNMP traps, shutdown) • Notification of events to the Syslog server • Measurement value threshold monitoring • Statistical graphs • Modbus master(3), (4)/slave(5) functions • Environmental monitoring using temperature and humidity sensors(1), (6) • Storage of collected UPS/Modbus/temperature and humidity sensor measurement data • Downloading operational information to a USB flash drive • Wireless communication (Access point mode, station mode)(7)
LAN communication	Transmission speed	1000/100/10 Mbps (auto-negotiation)
	Transmission method	Full-duplex and half-duplex (automatic), Auto-MDIX
Supported protocols		TCP/IP, UDP, DHCP, SNMP (v1, v2c, v3), HTTP, HTTPs, Telnet, SSH, FTP, FTPs, SMTP (over SSL/TLS), POP3 (over SSL/TLS), NTP, Modbus RTU,(1) Modbus TCP
Power consumption		7 W
Dimensions (W × D × H)		105 × 125.5 × 23.5 mm

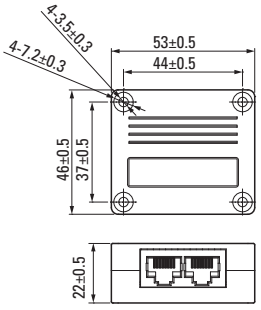
(1) Extension cable (option) is required.
(2) Up to 5 UPSs can be synchronously controlled.
(3) Up to 16 measurement values and statuses of Modbus slaves can be monitored.
(4) Set either of Modbus TCP or Modbus RTU as a master.
(5) Both Modbus TCP and RTU can be used at the same time.
(6) Up to 16 temperature and humidity sensors can be connected.
(7) A commercially available LAN adapter dongle that we recommend can be used.
Note: To shut down computers automatically using SANUPS SOFTWARE, use PRLANIF022A or PRLANIF024A model.

Options

■ Temperature and humidity sensor

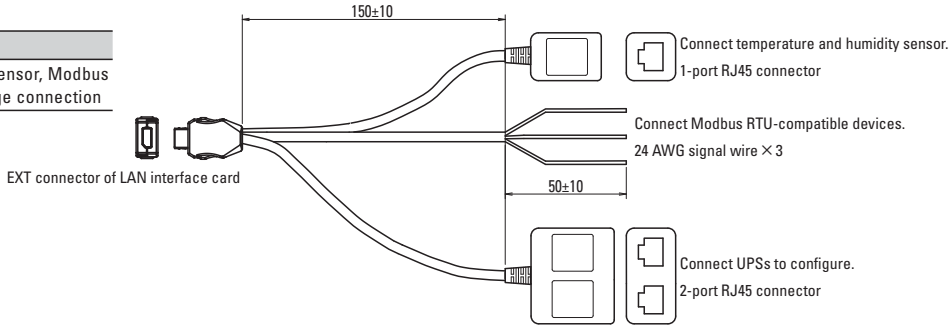
Model no.	9CT1-T
Measurement range	Temperature: -20 to +70˚C Humidity 20 to 85% RH (non-condensing)
Mass	35 g

Dimensions (Unit: mm)



■ Extension cable

Model no.	Remarks
CARD-CBL007	For temperature/humidity sensor, Modbus RTU (RS-485), or UPS linkage connection



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