

Coordinator (CST-N001)

Manual

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US Representative Contacts

Company name : Corners Global
Address : 3949 Eden St, Philadelphia, PA 19114
Contact Name : Adel Ebeid

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1. OVERVIEW

- CST-N001 controls up to 64 LoRa-based devices (CST-G001) and swiftly forwards sensing information received from CST-G001 to the server in case of an emergency.
- The server should communicate evacuation information to CST-N001 through emergency evacuation algorithms, and CST-N001 should quickly communicate evacuation information received from the server to all CST-G001 so that casualties can be minimized through evacuation announcement and announcement.



Parameter	Description
Processor	ARM926EJ-S
Flash Memory	8 MB
SDRAM	32 MB
Operating System	Embedded Linux
Configuration	Telnet, SSH
Protocols	TCP, UDP, Telnet, ICMP, DHCP, TFTP, FTP
Network	Static IP, DHCP
Data Encryption	Network (AES 128 bits)
LAN Ports	10/100 Mbps, Auto MDI/MDIX
Connector	RJ-45
RF	LoRa™ long range modem, 900MHz
Antenna	2 dBm
Input Power	AC 120V Adapter (Output : DC 12V / 1 A)
Ethernet	LAN 10/100Mbps
Operation Temperature	-40 ~ 85
LED (Ready)	Blink LED
Dimensions	75.8(W) x 83.6(L) x 28.4(H)mm
Weight	210 g

2. INSTALLATION

This chapter explains how to install CST-N001. It deals with LAN connection guides

2.1 Connection Guide

In order to connect CST-N001 to network, you need to use RJ-45 Ethernet port. It supports both 10Mbps and 100Mbps Ethernet connection (auto-sensing). Since WAN/LAN port supports MDIX, it automatically detects any kind of cable. (Cross or direct LAN cable) Plug one end of the LAN cable to CST-N001 and the other end to a hub, switch, or any other network device.

2.2 First-Time Power On

First of all, please make sure that the power input you supply to the module is corresponding with the CST-N001 model that you have. If an appropriate power input has been successfully supplied, CST-N001 will power on and start booting.

Although there is no power LED to check the status, you can check by LEDs on the RJ-45 Ethernet port.

An IP address is required to access web interface in CST-N001 or telnet command-line configuration tool. By factory default, a static IP address is assigned to CST-N001. After the initial connection, you can either manually assign a different IP address or set CST-N001 to automatically get an IP address from a DHCP server. While this depends on your network environment and policy, it is strongly recommended that a user assigns CST-N001 with a unique static IP.

3. FCC Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two condition: (1)This Device may not cause harmful, and (2)This device must accept any interface received, including interface that may cause undesired operation.

Any changes or modifications (including the antenna) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Model : CST-N001

Product : LPWA Gateway

Manufacturer : Corners Co.Ltd

Power : AC120V, 60Hz 1A

FCC ID : 2AVFH-CSTN001