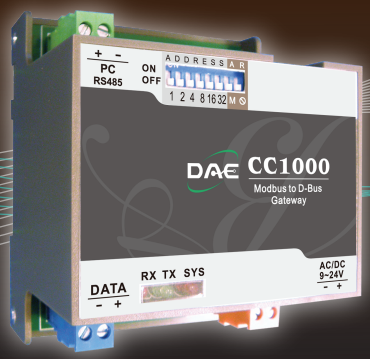
CC1000 Modbus Gateway

CC SERIES



Smart for Greenlife !

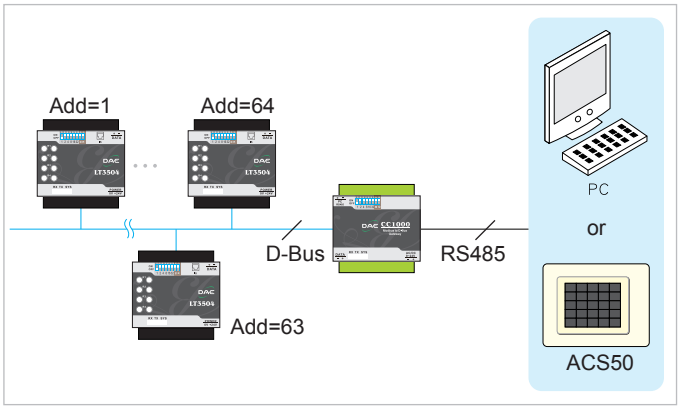
Features

- Open industry standard Modbus protocol
- RS485 communication
- Low latency and quick response
- Fast boot up, only 10 seconds to get system up and running
- Supports up to 256 lighting circuits from 64 LT modules

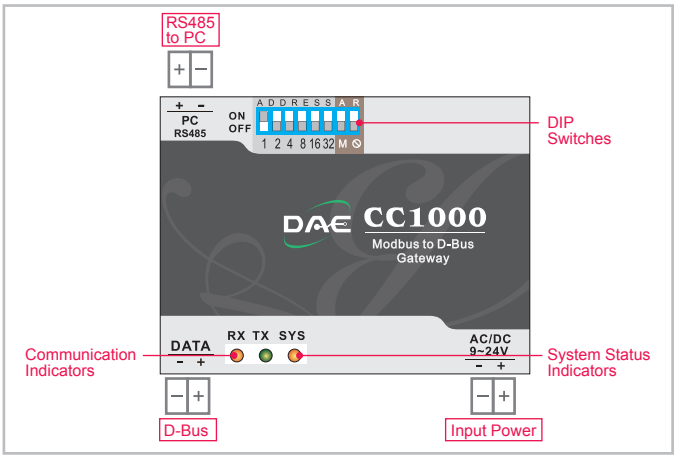
Description

- The CC1000 is a gateway for interfacing a host to the smart lighting control system. But it is more than just a gateway as it also automatically collects and buffers the data from the various LT modules connected to all for quicker response time. The CC1000 is based on the open industry standard Modbus protocol and allows for easy interfacing with all types of central host, including most BAS, industrial software and SCADA systems.
- The CC1000 works bidirectionally, not only does it always reflect the latest status of the relays, discrete inputs and analog inputs, but it can also issue commands to control the relays, set the analog outputs and control groups and activate patterns. During normal use, the response time is typically under 0.2 seconds both for commands issued and status reading.
- The CC1000 constantly listens in on the bus and this allows the data registers on the CC1000 to be always in sync with the status of the actual relays and the other digital switches. Even the manual control buttons on board each LT module is shown correctly. This guarantees that the data sent to the central host is always up to date.
- The CC1000 interfaces with the host through RS485 communication, but it would also be possible to communicate via Ethernet by using an intermediate converter device.
- The CC1000 is also equipped with communication status indicators which is useful as a testing tool during installation or troubleshooting.

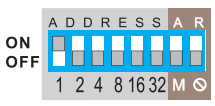
System Architecture



Front Panel and Terminals



DIP Switches

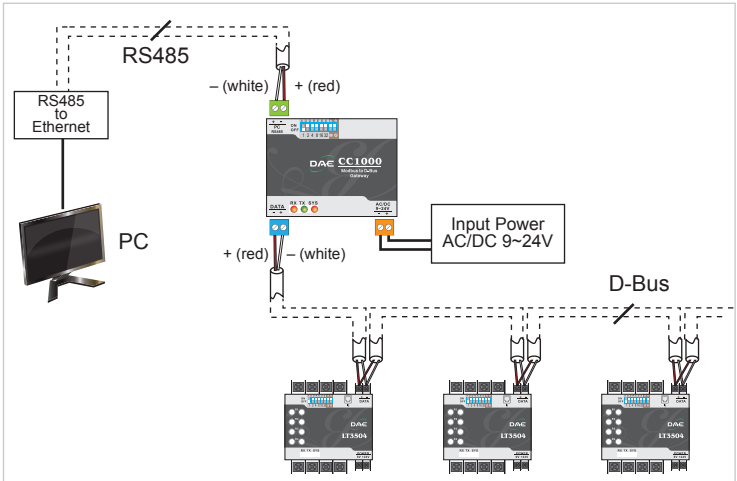


DIP	Description	
1-6	address 1~64 (all off = 64)	
7	A	Auxiliary, the CC1000 will NOT initiate a system wide query on boot up
	M	Main, the CC1000 will initiate a system wide query on boot up
8	R	Use RS485 to link with PC
	⦸	Reserved

Specifications

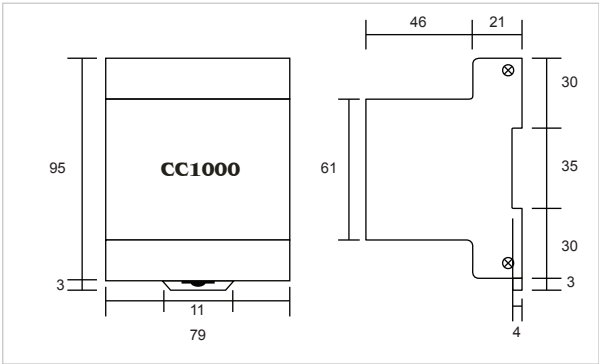
Item	Description
Input Power	AC/DC 9~24V
Power Consumption	2.4VA
Operating Environment	Temperature: 0 to 60˚C Humidity: 0 to 90%RH (non-condensing)
Enclosure Material	ABS plastic
Mounting	DIN rail
Weight	252g
Wire Gauges	Power: orange terminals, 16 to 22 AWG Communication: blue terminals, 16 to 22 AWG green terminals, 16 to 22 AWG
RAM	32K
Flash ROM	32K
Communication Interface	RS485 (+.-)
LED Indicators	RX - communication receive activity TX - communication transmit activity SYS - system status
Response Time to Host	200 ms (nominal), 300 ms (max)
Boot Up Time	10 seconds
Communication Data Format	9600 bauds, 8 / n / 1
Communication Protocol	Modbus/RTU
CE Certifications	FCC PART 15 Subpart B(10-1-08 Edition), Class B EN61000-4-2 / EN61000-4-3 / EN61000-4-4 EN61000-4-5 / EN61000-4-6 / EN61000-4-8"1993 A1 EN61000-4-11
FCC Certifications	FCC PART 15 Subpart B(10-1-08 Edition), Class B

Wiring Diagram



Note:
Each CC1000 can support only one host, and up to 64 LT modules

Dimensions



Unit: mm Weight: 252g

Ordering

Order Code	Description
CC1000	Modbus to D-Bus gateway