# SolarEdge ONE Controller For C&I

CLC<sub>1</sub>



## An on-site manager that integrates local devices for maximized energy optimization

- Optimizing the use of locally generated energy to reduce electricity costs, enabled by the SolarEdge ONE for C&I optimization platform\*
- Local communication gateway that connects the site's energy assets, including PV inverters, batteries, meters, and more\*\*
- Interfaces with environmental sensors to enable in-depth analysis for O&M and energy optimization
- PPC platform, designed to comply with grid regulations to enable safe, reliable electricity generation
- A cyber secured gateway for external communications designed to protect against unauthorized access
- Includes extended local data retention in case of cloud connectivity interruptions
- Supports secure over-the-air firmware upgrades

<sup>\*\*</sup> For a list of the devices supported in your region, see the <u>Devices Supported with SolarEdge ONE Controller</u> application note.



<sup>\*</sup> Coming soon in selected regions.

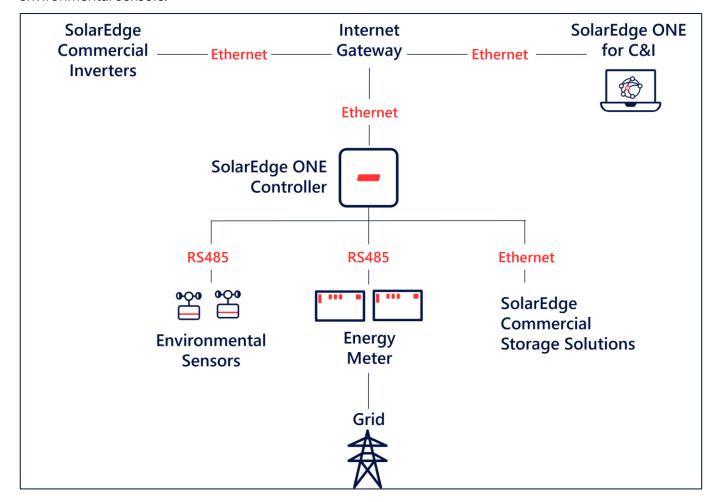
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			CLC1	Units
COMMUNICATION I/O				
USB		x USB 2.0 ports ar	nd 1 x USB 3.0 port, type-A connectors	
RS485		2 x isolated, terminal-block connectors		
CAN Bus		1 x isolated, terminal-block connector		
Digital I/O		4 x digital outputs + 4 x digital inputs		
	Isolated, 24 V compliant with EN 61131-2, terminal-block connector  2 x RJ45 connectors			
LAN		2 x 1000 Mbps		
Wireless		802.11ax WiFi and Bluetooth 5.3 BLE		
MILEIG22	2 x	2 x 2.4 GHz / 5 GHz antenna sockets (for rubber duck antenna)		
Security			TPM 2.0	
PROTOCOL				
Over RS485		Modbus RTU		
Over LAN		TCP/IP, Modbus TCP		
ELECTRICAL				
Power Supply	Included	Included, 100 – 240 Vac, 50 / 60 Hz, EU / UK / US / AUS Interchangeable		
Supply Voltage			Unregulated 8 – 36	V
Typical Power Consumption	Linux Idlo	Current	200	mA
	Linux Idle	Power	2.4	W
	CPU, memory stress test,	Current	450	mA
	and connectivity activity	Power	5.4	W
MECHANICAL				
Dimensions		132 x 84 x 25		
Weight		550		
Button		1 x Power		
LED		3 x Power, Local, and Cloud Communication indicators		
Cooling		Passive cooling, fanless design		
ENVIRONMENTAL				
Operation Temperature		-40 to 80		
IP Rating		IP30		
Relative Humidity		Commercial: 0 to 60; Industrial: -40 to 80		
Maximum Altitude			3000	m
STANDARD COMPLIANO	CE			
Cofety	US/Canada	UL 62368- 1:2019; CSA-C22.2 No.62368-1:19		
Safety	EU/UK	EN 62368-1: A11:2020; IEC 62368-1:2018 (Ed.3)		
EMC	US/Canada	FCC 47CFR Part 15: 2021, Subpart B, Class B; ICES-003: 2020 Issue 7, Class B		
	EU/UK	EN 55032: 2015 + A1(20) + A11(20), Class B; EN 55035: 2017 + A11(20); EN 61000-3-2: 2014; EN 61000-3-3: 2013; EN IEC 61000-6-2: 2019; EN IEC 61000-6-3: 2021 Class B; EN 301 489-1: V2.2.3: 2019, Class B; EN 301 489-17: V3.2.4: 2020, Class B; EN 301 489-52: V1.2.1: 2021		
RED (RF) WiFi / BT	US/Canada		FCC ID: PD9AX210NG	
	EU/UK	EU/UK EN 300 328 v2.2.2 (WLAN & BT); EN 301 893 v2.1.1; EN 300 440 v2.2.1; EN 303 687 V1.0.0		
INSTALLATION SPECIFIC	CATIONS	II.		
Mounting		DIN Rail or Wall Mount		
Kit Content		Power supply unit, 2 x WiFi / BT rubber duck antennas 2 x 11-pin dual-raw plug Wall mounting bracket		
APPLICATIONS		D	DIN-rail mounting kit	
AFF LICATIONS				

## SolarEdge ONE Controller CLC1

#### **Connection Scenarios**

The following diagram shows a typical system architecture that includes the on-cloud SolarEdge ONE for C&I optimization platform, the local SolarEdge ONE Controller, and the connection with additional devices, including SolarEdge inverters and commercial storage solutions, as well as energy meters and environmental sensors.





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