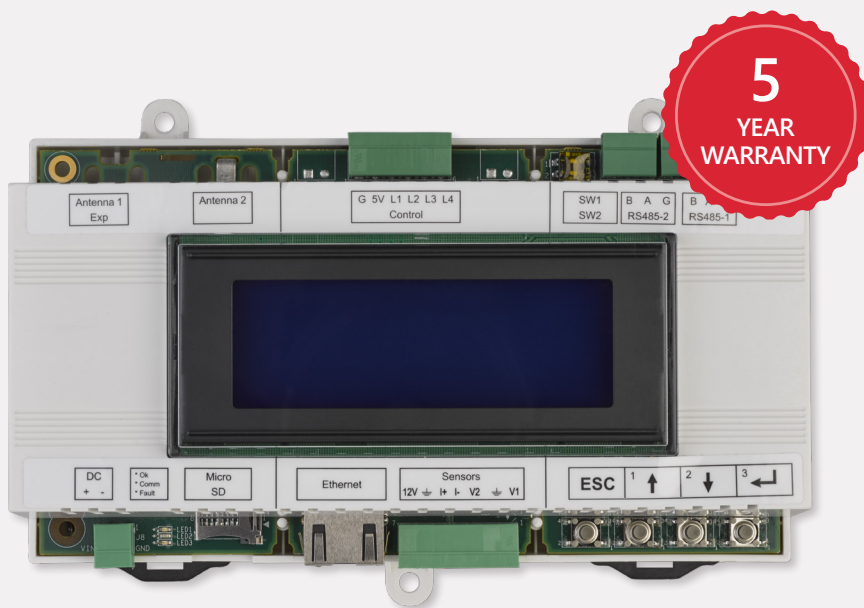# Commercial Gateway

SE1000-CCG-G-S1

5 YEAR WARRANTY

All-in-one communication gateway

▌ Expands the SolarEdge system's monitoring and control capabilities

▌ Wireless connectivity including optional Wi-Fi, cellular, and ZigBee

▌ Supports a variety of environmental sensors including temperature, irradiance, and wind

▌ Easy installation via DIN rail or wall mount

▌ Power reduction interface for controlling inverter power - complies with EEG & BDEW standards

▌ Connects to third-party data loggers

▌ Energy meter reader

solaredge.com

solaredge

/ Commercial Gateway

SE1000-CCG-G-S1

SPECIFICATIONS				UNITS
POWER				
Power Supply - Wall Mount	Included, 100-240VAC, EU/UK/US/AU interchangeable, 2-pin plug			
Supply Voltage	9-14			Vdc
Connector Type	Terminal block			
Power Consumption	<2			W
ANALOG SENSOR INPUT				
Number of Inputs	3			
	Range	Accuracy	Resolution	
Input 1	0-30mV or 0-2V	+/- 1% f.s	10-bit	
Input 2	0-2V or 0-10V			
Input 3	-20mA to 20mA			
COMMUNICATION INTERFACES				
Ethernet Interface	10/100-BaseT			
Wireless Connections	Wi-Fi[1]			
Cellular Module Interface	Cellular Module[1]			
Power Reduction Interface	4 control pins, 5V, GND			
RS485 Interface	2 ports; May be used for local connection			
SUPPORTED RS485 DEVICES				
SolarEdge Devices	Yes			
Export Inverter Data	Yes			
Revenue Meters	Yes			
Export Data to Non-SolarEdge Logger	Yes			
ENVIRONMENTAL				
Operating Temperatures	-20 to 60 / -4 to 140			°C / °F
Protection Rating	IP20 indoor			
STANDARD COMPLIANCE				
Safety	IEC60950, UL60950			
EMC Approvals	ETSI (Europe), C-Tick (Australia), Telec (Japan)			
MECHANICAL				
Mounting Type	DIN rail / Wall mount			
Dimensions (L x W x H)	165 X 90.5 X 53.5 / 6.5 X 3.56 X 2.11			mm / Inch
Weight	0.5 / 1.1			kg / lbs
STANDARD COMPLIANCE				
Safety	UL60950-1, IEC-60950-1			
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3			

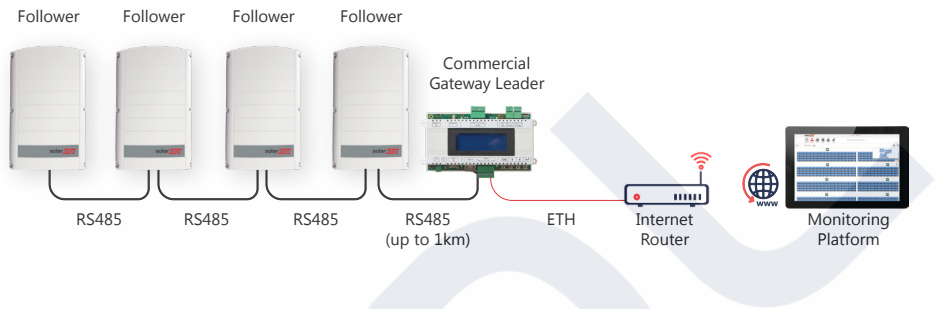(1) Sold separately - see individual product specs for supported locations

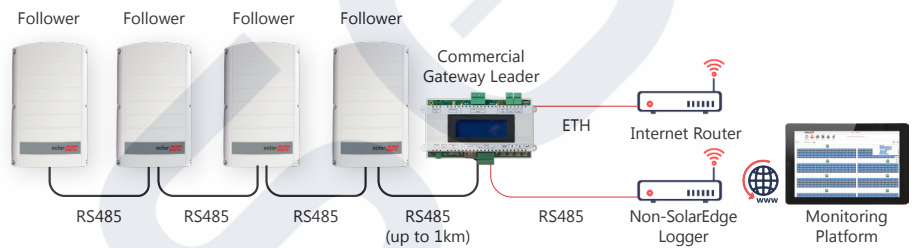# / Commercial Gateway

SE1000-CCG-G-S1

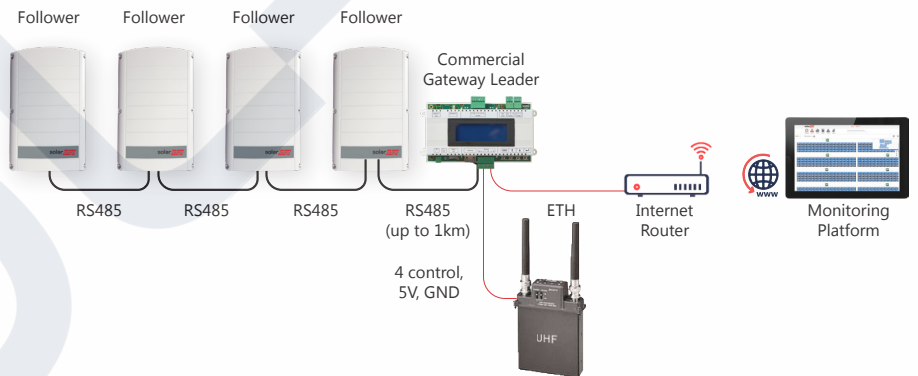## CONNECTION SCENARIOS

Example 1
Extend the Distance of Wired Connection

Follower | Follower | Follower | Follower

Commercial Gateway Leader

RS485 | RS485 | RS485 | RS485 (up to 1km) | ETH | Internet Router | Monitoring Platform

Example 2
Non-SolarEdge Logger & SolarEdge Monitoring Parallel Connection

Follower | Follower | Follower | Follower

Commercial Gateway Leader

ETH | Internet Router

RS485 | RS485 | RS485 | RS485 (up to 1km) | RS485 | Non-SolarEdge Logger | Monitoring Platform

Example 3
Power Reduction Interface (PRI) Connection

Follower | Follower | Follower | Follower

Commercial Gateway Leader

RS485 | RS485 | RS485 | RS485 (up to 1km) | ETH | Internet Router | Monitoring Platform

4 control, 5V, GND

UHF

Example 4
Analog Sensors Connection

Commercial Gateway Leader

RS485 | RS485 | RS485 | RS485 (up to 1km) | ETH | Internet Router | Monitoring Platform

Ambient Temperature Sensor | Module Temperature Sensor | Irradiance Sensor
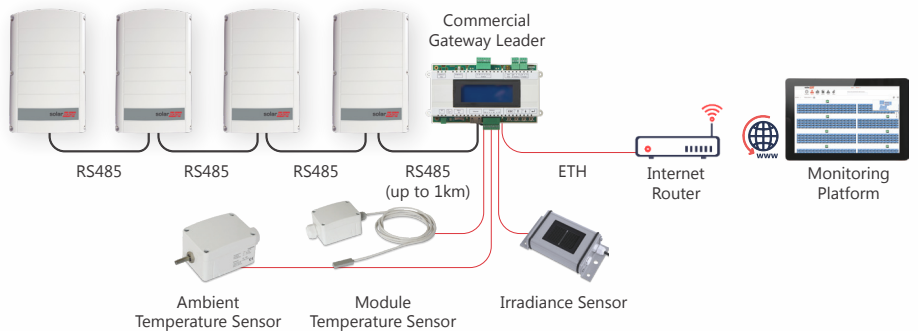
/ Commercial Gateway

SE1000-CCG-G-S1

CONNECTION SCENARIOS

Example 5
Electricity Connection

Follower   Follower   Follower   Follower

Commercial Gateway Leader

RS485   RS485   RS485   RS485 (up to 1km)   ETH   Internet Router   Monitoring Platform

RS485

Energy Meter
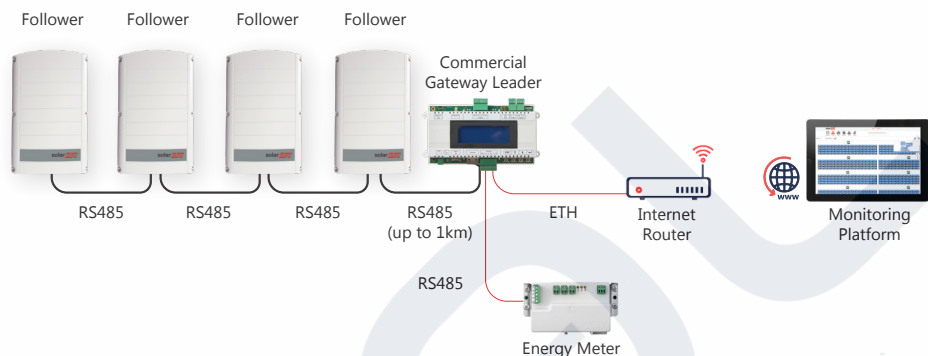
Example 6
Cellular Connectivity

Follower   Follower   Follower   Follower

Commercial Gateway Leader

Cellular Tower

RS485   RS485   RS485   RS485 (up to 1km)

Monitoring Platform
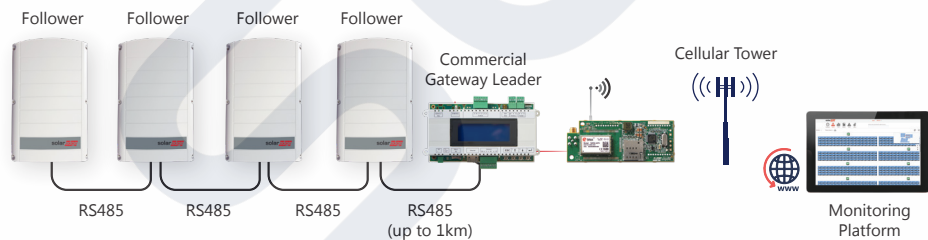
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