Commercial Gateway

SE1000-CCG-G-IL-S1

All-in-one communication gateway

- Wireless connections including optional WiFi, Zigbee and GSM plug-ins
- Environmental sensors support
- Power reduction interface
- Energy meter reader
- Non-SolarEdge inverter data loggers
- Easy installation - DIN rail and wall mount

solaredge

Commercial Gateway
SE1000-CCG-G-IL-S1

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			
Input 2	0-2V or 0-10V	+/- 1% f.s	10 bit	
Input 3	-20mA – 20mA			

COMMUNICATION INTERFACES		
Ethernet Interface	10/100-BaseT	
Wireless Connections	WiFi or ZigBee modules[1]	
GSM Plug-in Interface	2G/3G GSM[1]	
Power Reduction Interface	4 control pins, 5V, GND	
RS485 Interface	2 ports; May be used for local connection	

SUPPORTED RS485 DEVICES[2]		
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	

MECHANICAL		
Mounting Type	DIN Rail / Wall mount	
Dimensions (LxWxH)	165 X 90.5 X 53.5 / 6.5 X 3.56 X 2.11	mm / Inch
Weight	0.5 / 1.1	kg / lbs

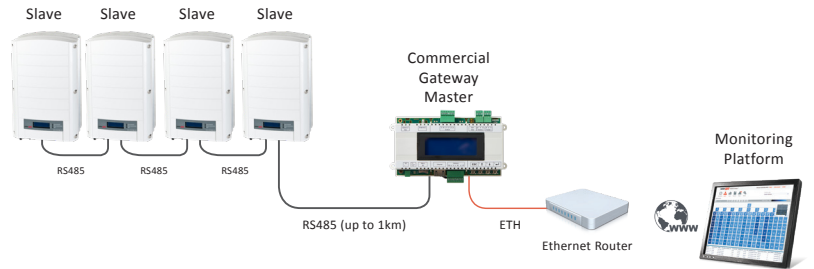| STANDARD COMPLIANCE		
Safety	UL60950-1, IEC-60950-1	
EMC	FCC Part 15 class B, IEC61000-6-2, IEC61000-6-3	

[1] sold separately - see individual product specs for supported locations
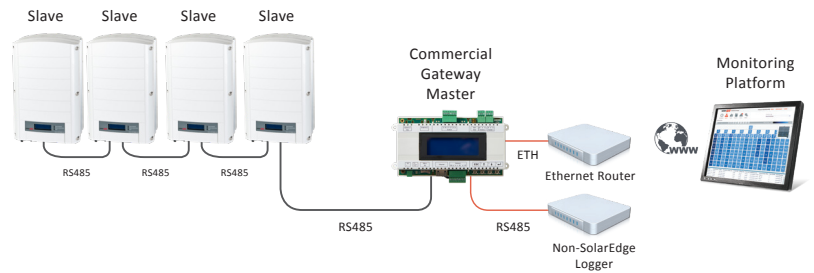[2] for supported protocols and devices, see link http://www.solaredge.com/files/pdfs/se-gateway-supported-devices.pdf

CONNECTION SCENARIOS

Example 1

. . . .

Extend the Distance of Wired Connection

Slave   Slave   Slave   Slave

Commercial Gateway Master

Monitoring Platform

RS485   RS485   RS485

RS485 (up to 1km)   ETH

Ethernet Router

Example 2

. . . .

Non-SolarEdge Logger & SolarEdge Monitoring
Parallel Connection

Slave   Slave   Slave   Slave

Commercial Gateway Master

Monitoring Platform

RS485   RS485   RS485

ETH

Ethernet Router

RS485   RS485

Non-SolarEdge Logger

Example 3

. . . .

ZigBee Wireless Server Connection

ZigBee Gateway

Monitoring Platform

Slave   Slave   Slave   Slave

Master   Ethernet ETH

Internet Router

Commercial Gateway
SE1000-CCG-G-IL-S1
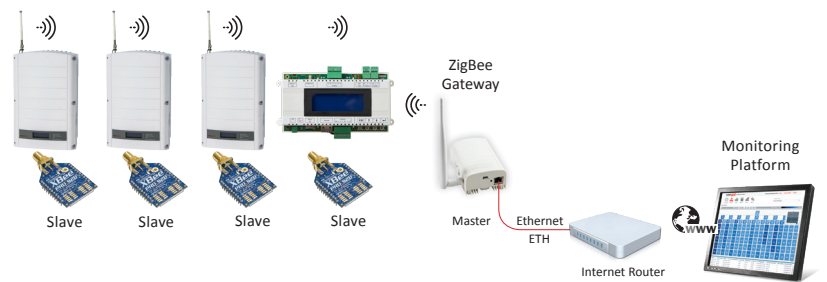
CONNECTION SCENARIOS

Example 4
Power Reduction Interface (PRI) Connection

Slave | Slave | Slave | Slave
RS485 | RS485 | RS485

Commercial Gateway Master

RS485 — ETH — Ethernet Router — Monitoring Platform — www

4 control, 5V, GND — UHF
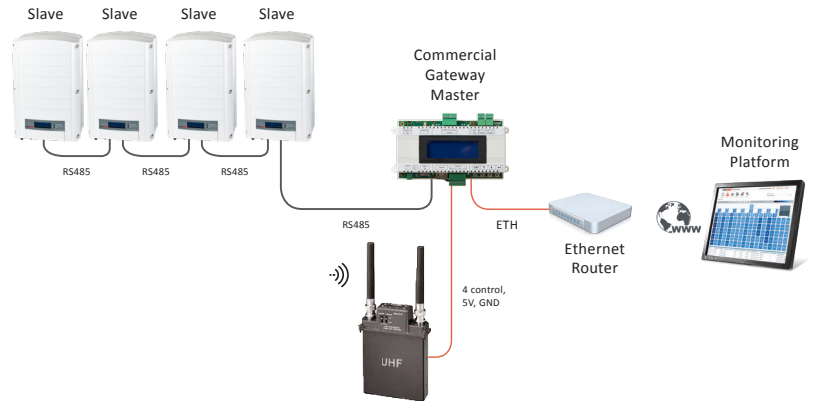
Example 5
Analog Sensors Connection

Slave | Slave | Slave | Slave
RS485 | RS485 | RS485

Commercial Gateway Master

RS485 — ETH — Ethernet Router — Monitoring Platform — www

Ambient Temperature Sensor | Module Temperature Sensor | Irradiance Sensor
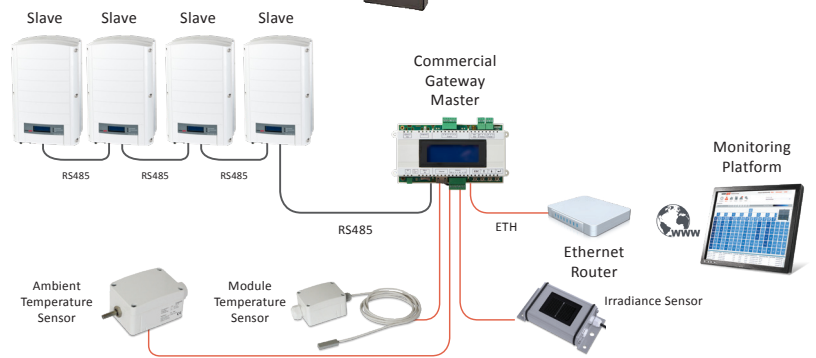
Example 6
Electricity Connection

Slave | Slave | Slave | Slave
RS485 | RS485 | RS485

Commercial Gateway Master

RS485 — ETH — Ethernet Router — Monitoring Platform — www

RS485 — Energy Meter
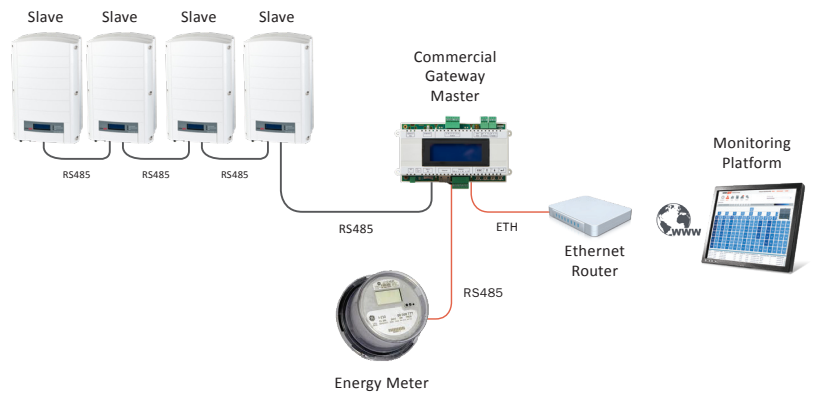
Example 7
GSM Connectivity

Slave | Slave | Slave | Slave
RS485 | RS485 | RS485

Commercial Gateway Master

RS485 (up to 1km) — Cellular Tower — Monitoring Platform — www

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