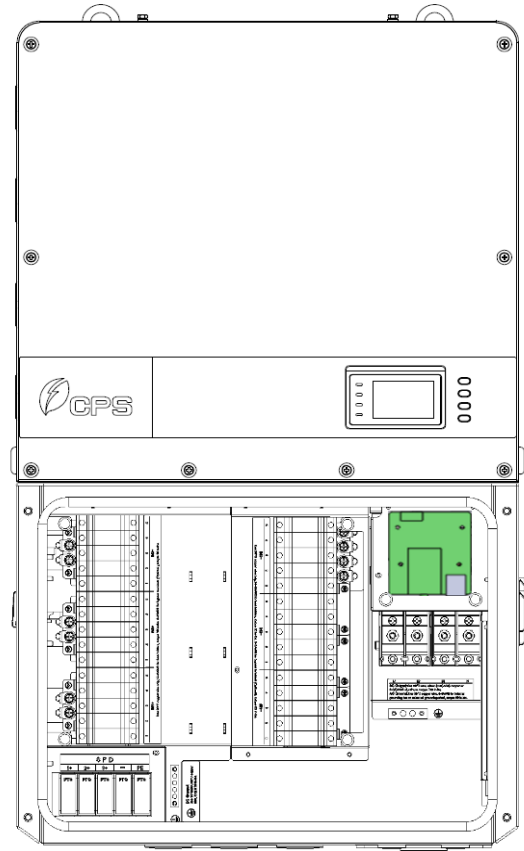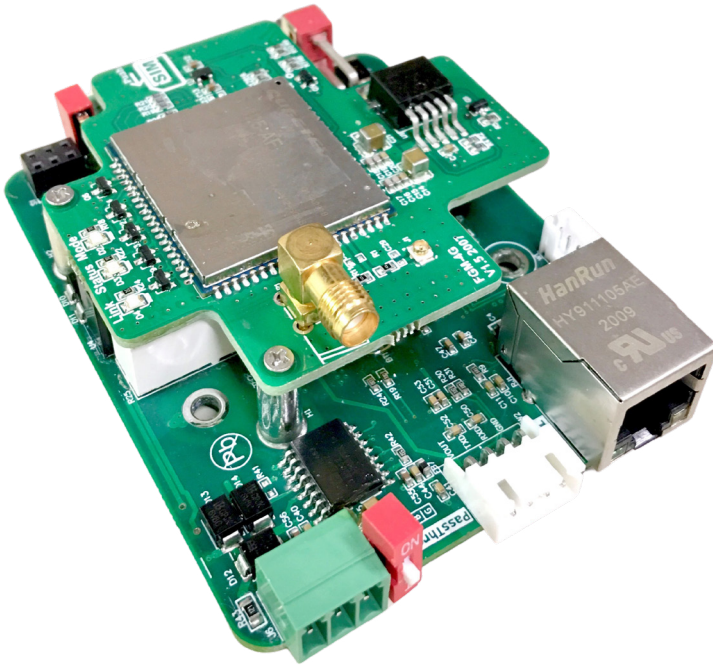# CPS FlexOM Gateway New

The CPS FlexOM Gateway is a new communications and controls solution for the CPS 25, 36, 50, 60, 100 and 125kW inverters. The gateway is a Modbus master data logger and communications device. This flexible solution enables fast, efficient field service for CPS inverters by enabling remote diagnostics/troubleshooting, settings adjustments, and firmware upgrades facilitated by the CPS Service team.

FlexOM Performance Packages are offered by CPS with web portal data access to features such as data charting, monitoring alerts, remote resetting, kiosk view, and more!

Key Features

- Can be installed in a single inverter wirebox: no power or extra equipment required
- Modbus communications input (up to 32 inverters per card) - Modbus RS485
- Complete controls functionality via Modbus (per inverter or broadcast command)
- Flexible outbound communications
- Programmable IP address for customer direct data (SunSpec XML HTTPS format)
- Remote firmware update solution reduces the need for a truck roll
- Pass-through data via Aux port for local 3rd party solutions (Modbus RS485)
- Includes WiFi module for use with "CPS Connect Pro" IOS or Android Smart Phone App
- Accessory enclosure allows for DIN rail mounting in 3rd party communication enclosures

Model Name	CPS FlexOM Gateway	CPS FlexOM-PP Performance Package	CPS FlexOM-PP-4G Performance Package
Hardware			
FlexOM Gateway Card	X	X	X
Metal DIN Rail Enclosure	X	X	X
WiFi Dongle (for app interface)	X	X	X
Cellular Antenna w/ 3m Cable, Mounting Bracket and Cable Gland (for 4G pkgs only)	X	X	X
Misc. Connectors & Standoff Screws	X	X	X
Pre-installed 4G SIM Card			X
Software Performance Packages			
5 Years of Web Portal Access		X	X
Asset Portfolio Feature		X	X
Monitoring Alerts		X	X
On/Off Reset Remotely		X	X
Arc-Fault Clearing Remotely		X	X
Active Power Setting Remotely		X	X
PF Setting Remotely		X	X
Fault Code Observation		X	X
Public Kiosk View		X	X
2 years of Rolling Data Storage		X	X
"End User" Account Admin		X	X
Communications			
Inverter to Gateway	RS485		
Internet Access	Ethernet	Ethernet	4G Cellular
Inverter Connections per Card	32		
Protocol	SunSpec XML, HTTPS, DHCP, DNS Resolution, CPS Modbus RTU		
Setup and Programming			
Local Programming	WiFi Dongle for CPS Connect Pro Phone App (IOS and Android)		
Remote Programming	CPS Service		
Datalogging Specifications			
Data Sampling Rate	Programmable data sampling (1 to 15 minute sample rate)		
Local Data Storage	30 days based on 15 minute intervals		
Data Parameters	Modbus ID, Inverter S/N's, Model, TYield/DYield(kWh), RunT(min),Mode, Upv(V), Ipv(A), Pac(kW), PF, Freq(Hz), Uabc(V), Iabc(A)		
Power Supply			
DC Input Voltage	9-24Vdc, 28Vdc Max (provided when installed in Inverter Wirebox)		
Power Consumption	<6W		
Environmental Parameters			
Ambient Temperature Range	-30 to +85°C, Natural Convection cooling		
Environmental Protection	Installed in NEMA 4X Inverter Wirebox		
Relative Humidity	<85% Non-condensing		
Mechanical Parameters (per unit)			
FlexOM Gateway Card Dimensions (HxWxD)	3.38" x 2.71" x 0.63" (86mm × 69mm × 16mm)		
FlexOM Gateway Enclosure Dimensions (HxWxD)	3.50" x 1.38" x 3.13" (89mm x 35mm x 79.4mm)		
FlexOM Gateway Card and Enclosure Weight	0.3lb (150g)		

FlexOM Gateway Installed in Wirebox | FlexOM Gateway Installed in 3rd Party Enclosure