DropletPLUS
Information sheet

What's a Droplet?

SwitchDin's DropletPLUS is an edge computing device that works with solar inverters, battery storage systems and other distributed energy resources (DER) types to deliver new capabilities for system owners, fleet managers and energy companies.

The DropletPLUS provide a range of functionalities to unlock new opportunities for solar and battery owners, including ancillary energy market participation and site optimisation and controls.

How does a Droplet connect?

The DropletPLUS can connect with multiple DER assets such as solar inverters, battery storage, EV chargers, power meters via ethernet, 4G or WiFi.

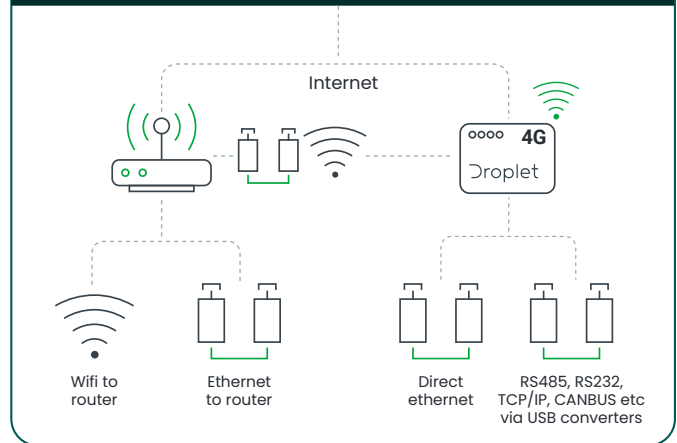## What equipment brands can I use with a Droplet?

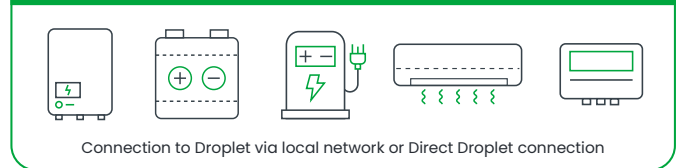SwitchDin has integrations with most popular solar Inverter and battery storage brands, including:

Fronius | solaredge | SUNGROW
GOODWE | TESLA | QCELLS
EGUANA | GROWATT | SOFAR
SOLAX POWER | AlphaESS | solis
RedEarth | SENEC | EVO POWER
victron energy | SMA | FIMER

*Please note that functionality differs with brand and model of device. For details please visit **www.switchdin.com/support** or email **support@switchdin.com**

For OEM cloud API integrations, please enquire about our Cloud Droplets.

Orchestration, fleet management & monitoring

Internet

4G Droplet

Wifi to router | Ethernet to router | Direct ethernet | RS485, RS232, TCP/IP, CANBUS etc via USB converters

What we connect

Connection to Droplet via local network or Direct Droplet connection

What can you do with a Droplet?

- Know what's happening with your energy: **Real-time energy monitoring and historic analytics** for home, businesses & fleet managers via SwitchDin's Stormcloud platform.

- Smart export limiting across multiple devices and brands.

- Make the most of your batteries: **Peak shaving capabilities and self consumption** for battery storage.

- Mix and match **different equipment brands** at the same site and across fleet monitoring, orchestrating and maintenance.

- **Support a clean, distributed electricity system** with smarter equipment.

I'm an installer. What do I need to install Droplets?

All system installers must be SwitchDin Accredited to install Droplets. Learn more about how to get accredited at **www.switchdin.com/academy**

Specifications	Droplet IMX8PLUS
Local Interface	LED Indicators
Communication Interface	
LAN	2 x 100Mbps Ethernet ports, RJ45 connectors
USB	2x USB2.0 ports, type-A connectors 1x USB3.0 port, type-A connector Max. 1200mA current output across all ports
Serial Interface	RS485 x2 direct connection Other types supported by adaptors
Cellular	4G/LTE CAT4 cellular module, Cellular rubber duck antenna
Wi-Fi	802.11ax WiFi Implemented with Intel WiFi 6E AX210 module 2x 2.4GHz / 5GHz rubber duck antennas
Communications protocols	Ethernet, TCP/IP, USB, RS485, CANbus
Data logging specifications	
Data sampling rate (local)	1 second
Data sampling rate (to StormCloud)	10 seconds
Local storage	1 million metrics (typically 3 months data for system with 3 devices)
External power supply (included)	
Input voltage	90 - 264Vac
Input frequency	47 - 63Hz
Max input current	1A
Output voltage	Power supply outputs 12V 3A
Output current	3A
Other	Supports unregulated 10 - 36Vdc
Mechanical parameters	
Dimensions	132mm x 84mm x 25mm
Weight	550g
Mounting system	DIN rail (Mounting kit included)
Environmental parameters	
Operating temperature range	0°C to 60°C
Devices supported	**www.switchdin.com/support**