

Droplet

Information Sheet



What's a Droplet?

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

The Droplet delivers customers:

- Simplified integration
- Optimised assets
- Increased revenues
- Decreased costs
- Simplified operations
- Vendor agnostic fleet management

How does a Droplet connect?

The Droplet can connect with multiple DER assets such as solar inverters, battery storage, EV chargers, power meters via Ethernet or WiFi and to Stormcloud via Ethernet, WiFi or 4G.

What equipment brands can I use with a Droplet?

SwitchDin has integrations with most popular solar Inverter, battery storage, EV supply equipment and metering brands, including:



What are the Droplet's key benefits?

- **Interoperable:** Integrates with thousands of models of DER from solar inverters, BESS, EV chargers and meters.
- **Flexible comms:** Ethernet, WiFi, 4G/LTE, USB and RS485 native
- **High reliability:** 200,000 hours MTBF and dual Droplet redundancy for low MTTR
- **Low latency:** 50ms read/write loops to enable compliance with stringent regulatory requirements
- **Security:** Industry best practice including annual penetration testing
- **Portable software:** Our value is the software on the device, the software is portable to other hardware platforms if required
- **Scalability:** Designed to be deployed quickly and economically for large fleets

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

Installers must be SwitchDin Accredited. Get Accredited at www.switchdin.com/academy

Specifications	
Local Interface	LED Indicators
Communication Interface	
LAN	2 x 1000Mbps Ethernet ports, RJ45 connectors
USB	2 x USB2.0 ports, type-A connectors 1 x USB3.0 port, type-A connector Max. 1200mA current output across all ports
Serial Interface	2 x RS485 direct connection Other types supported by adaptors
Cellular	4G/LTE CAT4 cellular module, Cellular rubber duck antenna
Communications protocols	Ethernet, TCP/IP, USB, RS485
Data logging specifications	
Data sampling rate (local)	50 milliseconds
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
Supplied connectors	Type A, Type G, Type I
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