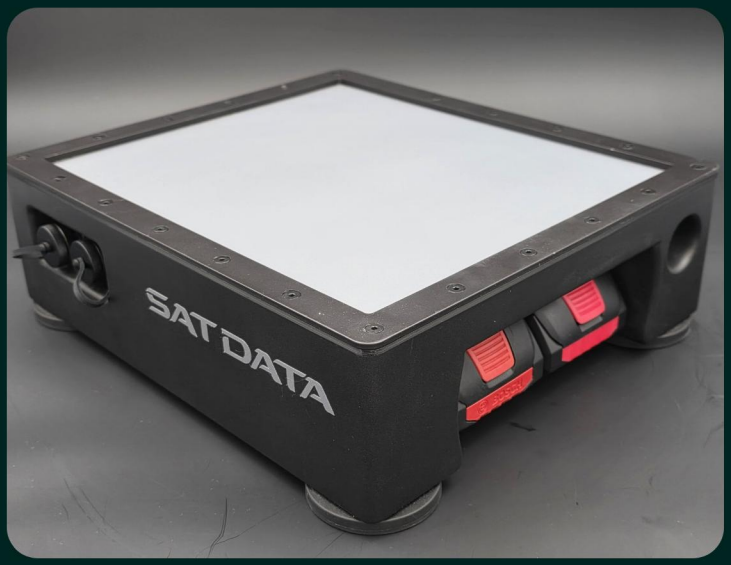
SATELLITE + 4G/5G IN ONE RUGGED UNIT

SatData Vanguard

Rugged, fully integrated unit for fast, reliable internet anywhere. Starlink Mini, a Peplink BR1 Mini 5G router and replaceable batteries in a water- and dustproof housing, for defence, industry and emergency response.



Starlink + 5G
hybrid, bonding via SpeedFusion

3x GbE
1 WAN/LAN + 2 LAN ports

2x 4 Ah
replaceable Bosch ProCore batteries, hot-swappable

IP67 / IP69K
water- and dustproof, can be hosed down

EVERYTHING ON BOARD

Key features

- Starlink Mini + 5G, bonding via SpeedFusion
- 3x Gigabit Ethernet: 1 WAN/LAN + 2 LAN
- 8 dBi high-gain internal antennas for 4G/LTE, 5G and WiFi
- 2x Bosch ProCore 4 Ah replaceable batteries, hot-swappable
- Mounting with rubber magnetic base or vacuum (SeaSucker)
- Managed via Peplink InControl2 and the Starlink app
- Router: Peplink BR1 Mini 5G
- WiFi 5 (Starlink); router with 2 SIM slots and eSIM
- USB-C PD to charge phones, tablets and laptops
- Chargers 230V→18V and 12/24V→18V: charge inside the unit
- Water- and dustproof, IP67 and IP69K: can be hosed down
- SpeedFusion VPN with 256-bit AES encryption

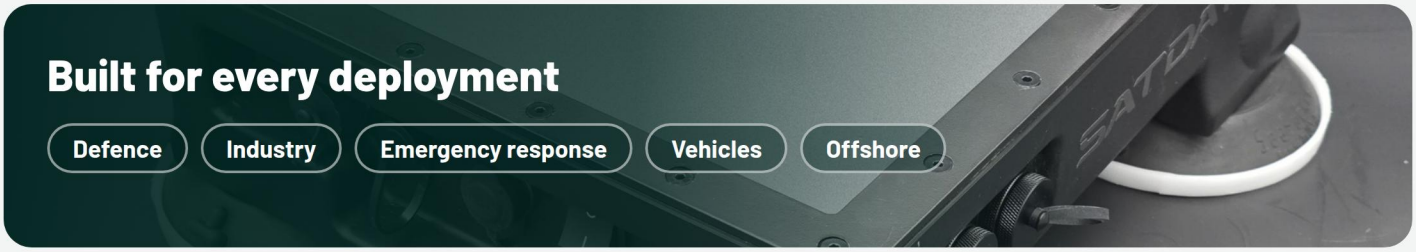
VERSION

Model and dimensions

Model	Housing	Mounting	IP	Batteries	Weight	Dimensions
Vanguard Standard	Plastic/carbon	Magnet or vacuum	IP67 / IP69K	2x 4 Ah ProCore	~1-3 kg	330 x 290 x 95 mm

14 SatData models with battery capacity up to 100 Ah, each with its own specifications per sector and use case.

Router in this version: Peplink BR1 Mini 5G. Also available with Cradlepoint R920, Celerway XM2 or GO, or Teltonika (bonding via WANplex).



UNDER THE HOOD

Technical specifications

Starlink Mini

Dimensions	298.5 x 259 x 38.5 mm
Weight	1.1 kg
Speed	100+ Mbps down / 5-20 Mbps up
Latency	25-60 ms
Devices	max. 128 simultaneous
WiFi	802.11a/b/g/n/ac (WiFi 5)
Ethernet	1x RJ45
Power	25-40 W, 12-48V DC, USB-C PD 100 W
Rating	IP67, -22°C to +50°C

Peplink BR1 Mini 5G

Network	1x 5G modem, 4G LTE
SIM	2x nano SIM, eSIM
Router	300 Mbps throughput
SpeedFusion	hot failover, smoothing, bonding
Ethernet	3x GbE (1 WAN/LAN + 2 LAN)
Dimensions	125.7 x 107 x 35 mm
Weight	420 g
Power	10-30V DC, 11-13 W
Temperature	-40°C to +65°C

Power

Batteries	2x Bosch ProCore 4 Ah, hot-swappable
USB-C PD	charges phone, tablet, laptop
Power bank	external option via USB-C
Mains	SatData charger 230V → 18V
Vehicle	SatData charger 12/24V → 18V
Charging	batteries charge inside the SatData

Antennas and mounting

Antennas	internal high-gain 8 dBi
Bands	4G/LTE, 5G and WiFi
Mounting	rubber magnetic base or vacuum
Vacuum	SeaSucker with protective caps

IMPRESSION

Available with vacuum SeaSucker or rubber magnetic base



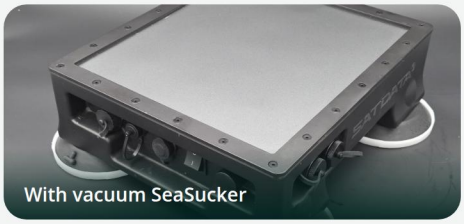
Front connections



Side view



Replaceable Bosch batteries


With vacuum SeaSucker


SeaSucker and batteries



USB-C and rear

EASY TO USE

Quick start

Inserting the SIM
Insert the SIM card gently and the right way round. Use tweezers when swapping if it is hard to reach.

Swapping a battery
Press the red button and slide the battery towards you. Refit in reverse order until you hear a click.

Using the SeaSucker
Remove the protective caps, place the unit on a flat surface and pump until the orange part is no longer visible. To release: press the tab inwards.

Clear view of the sky
The satellite antenna needs a clear view of the sky to work properly.

Bosch Professional only
Use only blue Bosch Professional batteries. ProCore is supplied as standard.

Hosing down allowed
The unit is rated IP67 and IP69K and can be hosed down with water.

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