

ZELLA Hut

Outdoor Micro Data Centres

Technical Specifications (AC powered)



ZELLA DC

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Zella Hut Outdoor Data Centre - benefits and features



An alternative to containerised data centres, the Zella Hut is a stand alone outdoor micro data centre, built on the time proven Zella Pro series.

Available in three sizes, Zella Hut has all the same features as Zella Pro, with the added benefit that it can be placed outdoors.

The Zella Hut range has been designed with the edge in mind - built to protect your assets and IT infrastructure no matter where they are located.

Ready to be deployed at the Edge - wherever that may be.

Keep your data and infrastructure **safe and secure** from physical and cyber threats.



Highly energy efficient with a low PUE (power usage effectiveness).



Pre-configured and ready to go. Just add your servers and IT equipment.



Your data and assets are fully enclosed by a robust **metal enclosure**.



Programmed with **alerts & automations** to protect your uptime.



Plug and play - simply connect to power and commission the cooling system.



The Zella Hut is fully **insulated** to keep your servers at a stable temperature.



The **secure door** will allow you to have complete control over who has access to your data.



Reduce your carbon emissions by lowering your energy consumption.



Save money by lowering your power bills and simplifying maintenance and installation.



Highly **distributed** set up, perfect for smart mines, 5G & telecom network, smart farms, etc.



IP65 rated to protect your IT infrastructure from dust and water. UV resistant.



Placed on a **plinth** for stability. Easy to transport and position in desired location with a forklift.



Manage and monitor your data and infrastructure remotely to protect your uptime.



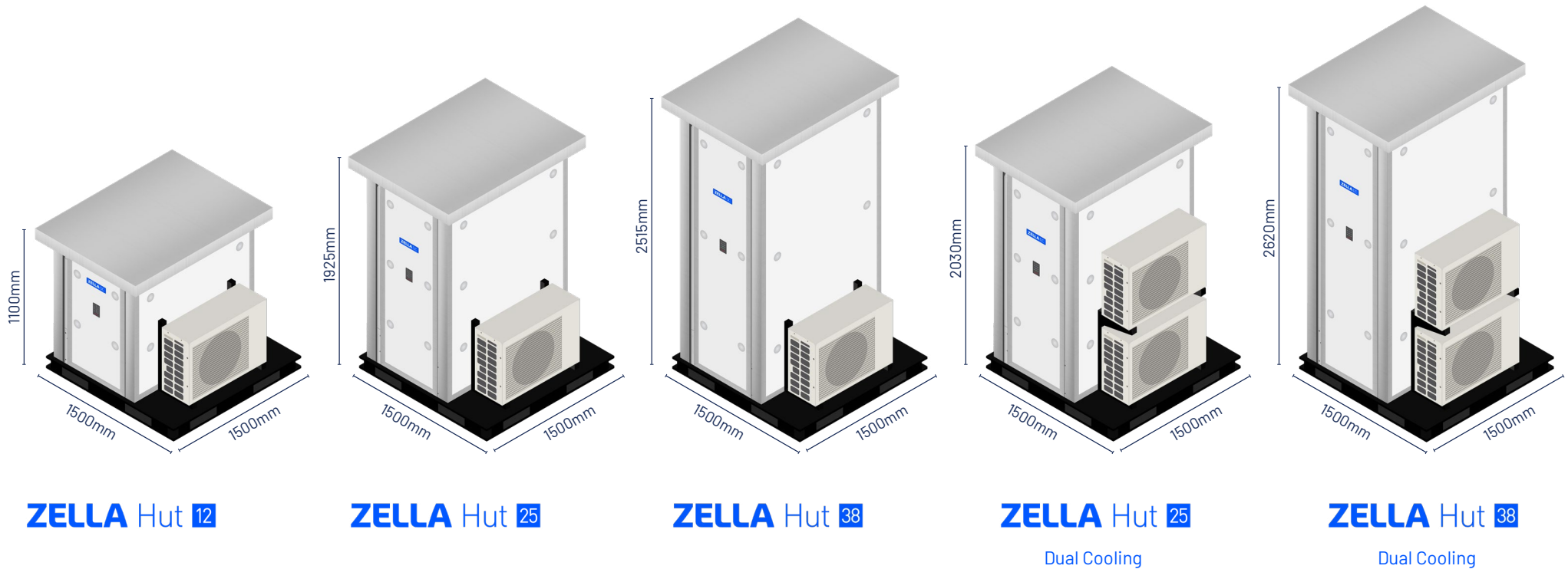
Internal LED bar lights allow you to easily view your IT equipment and servers.



Cable management to facilitate installation and maintenance and for health & safety.

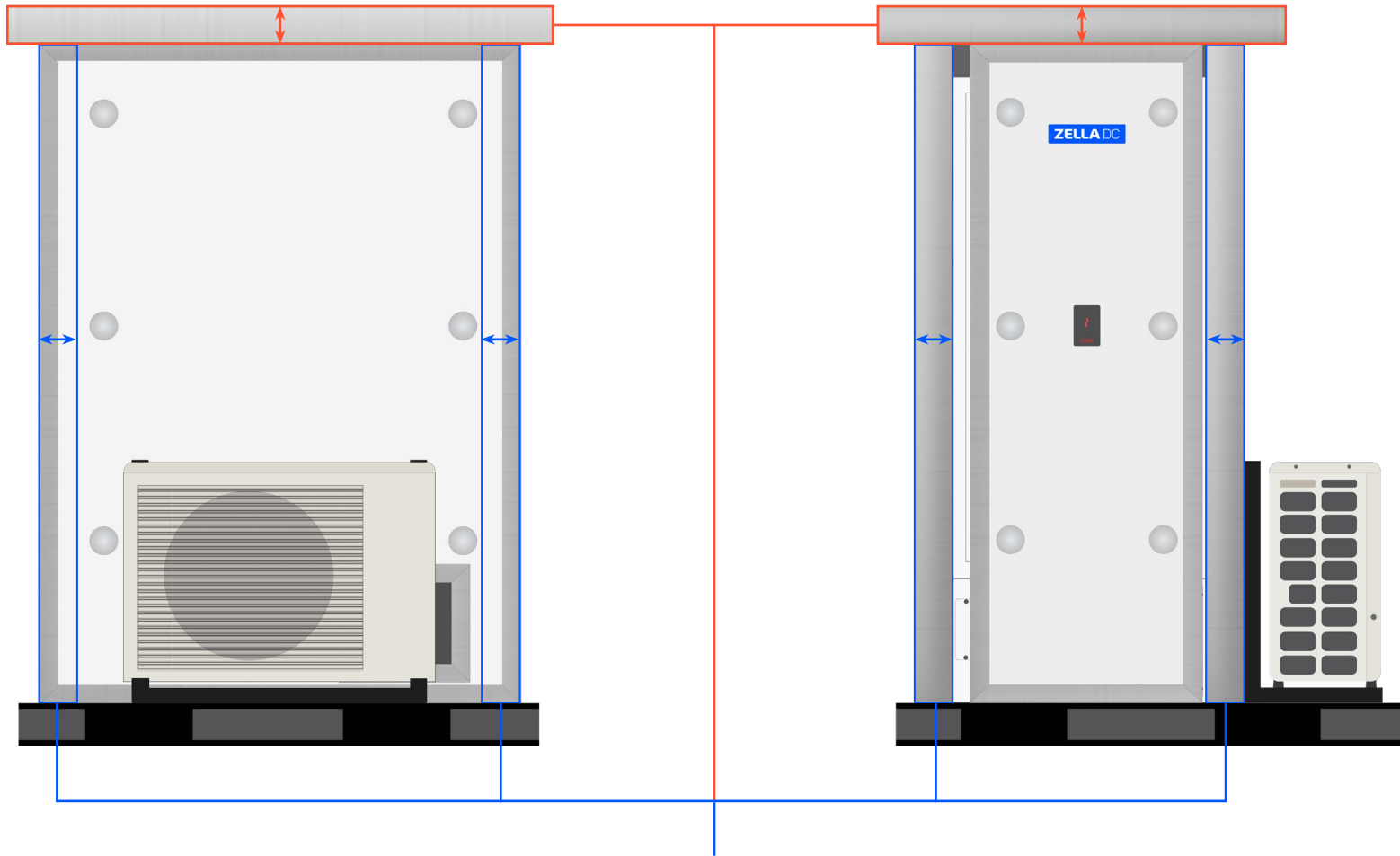


Dimensions and Weights



	Hut 12	Hut 25	Hut 38	Hut 25 - Dual Cooling	Hut 38 - Dual Cooling
Standard dimensions (L x W x H) mm	L1500 x W1500 x H1100	L1500 x W1500 x H1925	L1500 x W1500 x H2515	L1500 x W1500 x H2030	L1500 x W1500 x H2620
Base weight (approx.)	320kg	550kg	850kg	600kg	900kg
Client available space	×	23U	36U	23U	36U

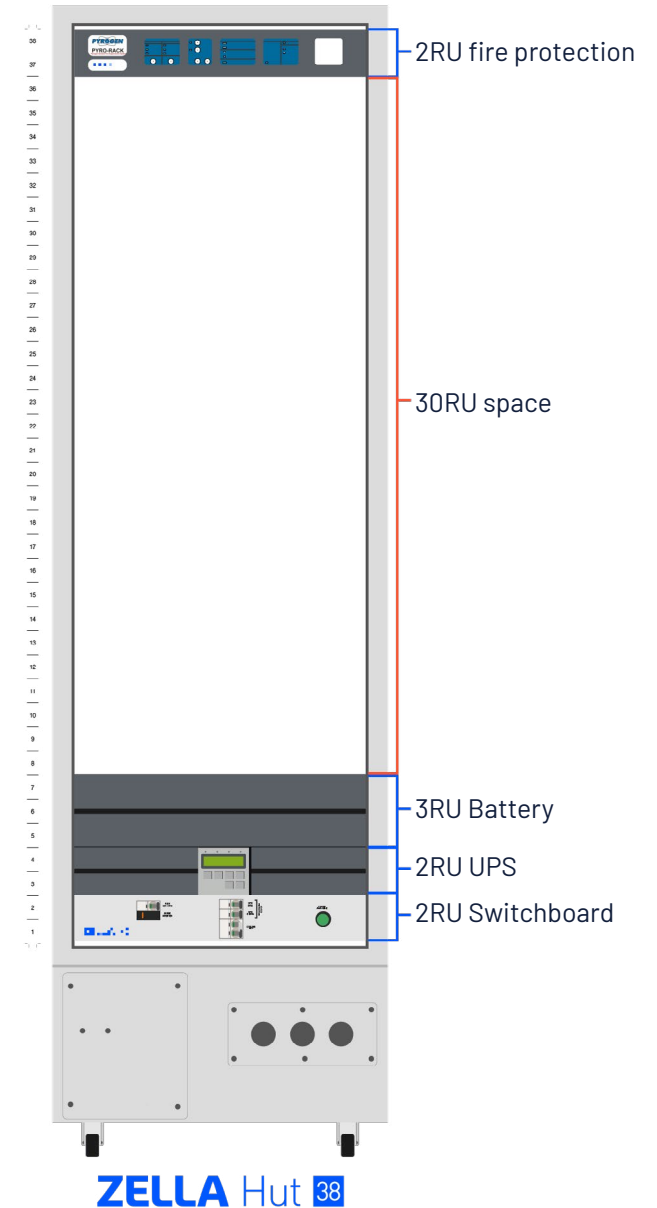
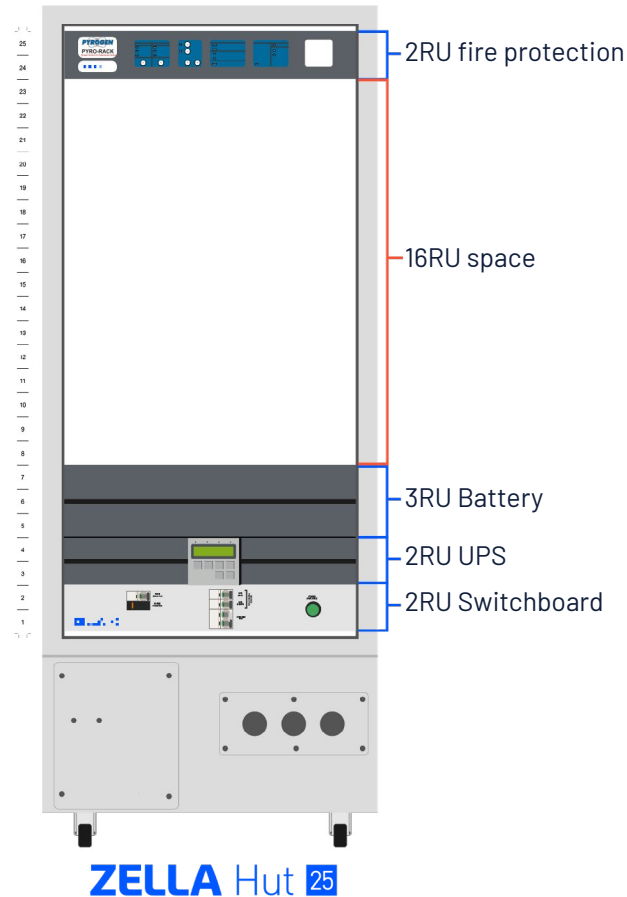
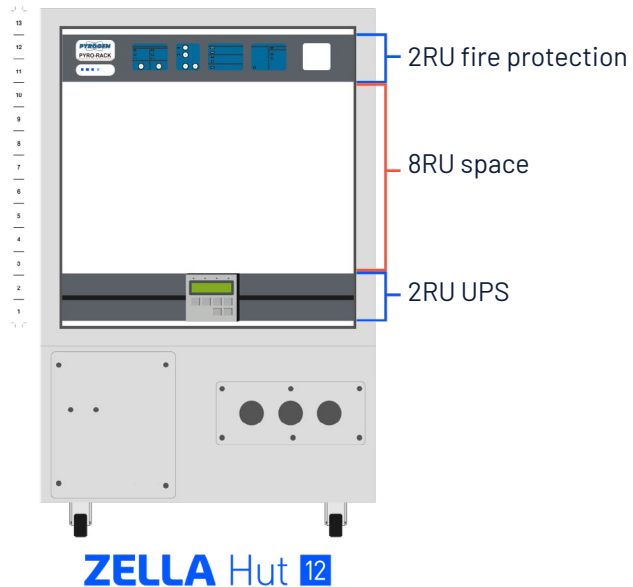
Zella Hut Insulation Overview



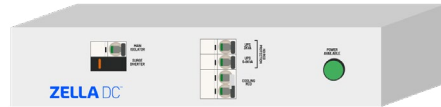
100mm EPS insulated roof, side walls, & front and rear door panels

Your IT spacing guide

Each Zella Hut includes a rack-mounted switchboard and a 0RU PDU. You also have the option to add a UPS, a battery and a fire protection system. You can use the remaining racks to add any other rack-mounted equipment you may need such as servers, comms equipment, additional batteries, etc.



Switchboard and Power



Hut 12

Standard switchboard

Single Phase 0RU 20 Amp

Standard inclusions

220V TO 240V - 50/60HZ

Easy UPS installation

Surge and RCD protection

Power cable length 5m

Optional upgrades

No switchboard upgrade

Power cable length 10m

Hut 25 | Hut 38

Standard switchboard

Single Phase 2RU 32 Amp

Standard inclusions

220v to 240v - 50/60Hz

Easy UPS installation

Surge and RCD protection

Power cable length 5m

Optional upgrades

Single phase 2RU 63 Amp

Dual Powered 3RU 32 Amp

Power cable length to 10m

Intelligent PDU

PDU features

Energy metering with bill grade accuracy (+/- 1%)

Metering per input line

Metering per output receptacle

Remote outlet switching

Networking

Metering per branch circuit breaker

On board display

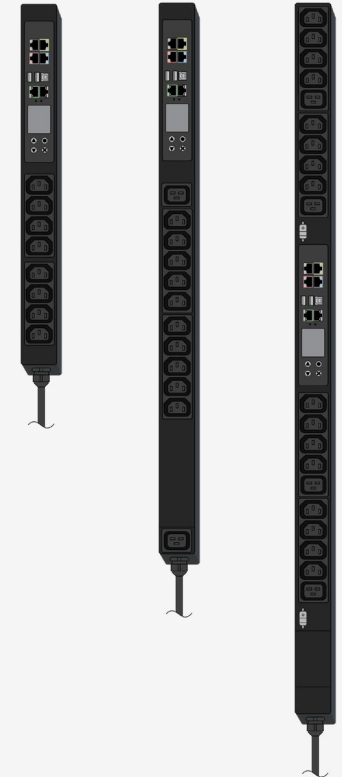
Overload protection

Cable retention

Hut 12

Hut 25

Hut 38



	Hut 12	Hut 25	Hut 38	Hut 25 Dual Cooling	Hut 38 Dual Cooling
Rated Input power (AMPS)	16amps	16amps	32amps	16amps	32amps
C13 - Output connections	8	11	16	11	16
C19 - Output connections	x	1	4	1	4

UPS (Uninterruptible Power Supply) and Batteries

OPTIONAL



Choose our UPS or add your own (vendor agnostic).

When you choose to buy a UPS and battery banks from Zella DC, these are rack mounted, and installed during factory build.

Hut 12

2kVA UPS DAKER Plus (310171)
6 x 12V 7.2AH internal batteries - 2RU
Estimated backup time - 10 minutes

Hut 25 Hut 38

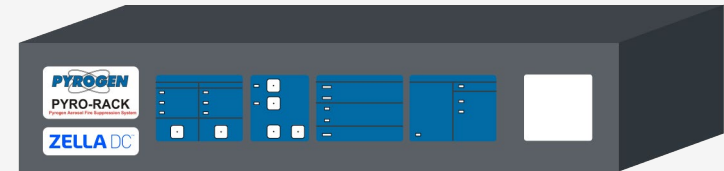
5kVA UPS DAKER Plus (310175) - 2RU
Battery Bank (310669) - 20x12V 9Ah - 3RU
Estimated backup time - 23 minutes

6kVA UPS DAKER Plus (310176) - 2RU
Battery Bank (310669) - 20x12V 9Ah - 3RU
Estimated backup time - 19 minutes

Additional Battery Bank (310669) - 3RU

Fire Protection

OPTIONAL



Rack mounted fire protection (Pyrorack)

Mounted at the top of the Zella Hut

10 year life span

Human friendly, equipment friendly and environmentally friendly

Easy to maintain and replace canister

Monitored

Cooling System

The Zella Hut comes with a single cooling system, with the option to upgrade to a dual system. Dual cooling includes two independent cooling systems which rotate every two weeks.

Hut 12

Single Cooling - Standard

2.5kW (7165 BTU)

Single Cooling - Upgrade

3.5kW (11 942 BTU)

Hut 25 | Hut 38

Single Cooling - Standard

5.0kW (17 060 BTU)

Single Cooling - Upgrade

6.0kW (20 472 BTU)

7.1kW (24 226 BTU)

Dual Cooling

Rotation Mode: 5.0kW (17 060 BTU)

Running in Parallel: 10kW (34 120 BTU)

Additional Information

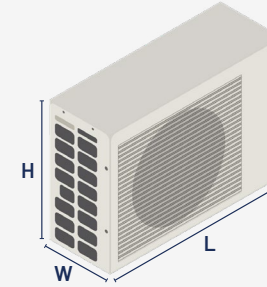
Zella Hut powers the external condensers

All condensers are pre-gassed

Copper piping to suit Zella Hut available in 20m lengths

All wiring provided to connect Zella DC and external condenser

External Condensers Specifications



Condenser size (mm): 550H x 675L x 284W

Gas Type R32

Max pipe length 20m and max level difference 15m

2.5kW (8530 BTU)
Condenser weight (kg): 26
Liquid pipe: 6.4mm
Gas pipe: 9.5mm

3.5kW (11 942 BTU)
Condenser weight (kg): 26
Liquid pipe: 6.4mm
Gas pipe: 9.5mm

Condenser size (mm): 595H x 845L x 300W

Gas Type R32

Max pipe length 30m and max level difference 20m

5kW (17 060 BTU)
Condenser weight (kg): 26
Liquid pipe: 6.4mm
Gas pipe: 9.5mm

6kW (20 472 BTU)
Condenser weight (kg): 26
Liquid pipe: 6.4mm
Gas pipe: 9.5mm

7.1kW (24 226 BTU)
Condenser weight (kg): 26
Liquid pipe: 6.4mm
Gas pipe: 9.5mm

Monitoring

PDView comes standard with Zella Hut and allows you to quickly gain complete access and control to your Zella Hut straight from your smartphone or laptop. The PDView App allows you to push program updates, set up SNMP traps, pull diagnostic files, test features/functionality, and more.

PDView allows you to manage each micro data centre individually:

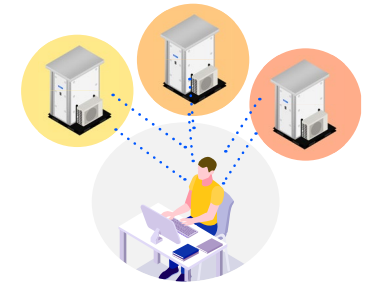
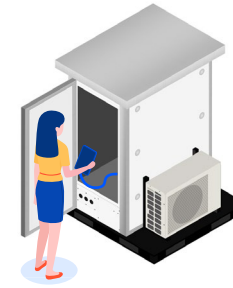
- ✓ Turns your tablet/phone into remote display (iOS & Android)
- ✓ View your critical data via your smart device

If you plan to manage multiple units, we recommend using PowerIQ which allows you to centrally manage and control your distributed micro data centres from a single pane of glass.

Power IQ DCIM Monitoring Software enables IT managers to closely monitor and efficiently utilize their micro data centre power infrastructure. Data center health maps, power analytics, cooling charts, and reports alert you to potential trouble and help you understand real-time power load, trends, and capacity at all levels of infrastructure. A configurable dashboard provides vendor agnostic views of power capacity, environmental health, and energy consumption. Get single-click access to micro data power, cooling, airflow, events, and much more.

Main features include:

- ✓ Environment Monitoring
- ✓ Energy Management
- ✓ Power Management
- ✓ Vendor Agnostic Management



PDView (standard)

Singular - managing one Micro Data Centre

Network independent - no network required

Integrated within Zella Hut

Standard interface

Pre-programmed within Zella Hut - ready for the Edge

Power IQ (optional)

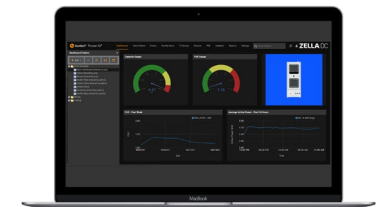
Multiple - intended for managing multiple Micro Data Centres

Network dependent - requires a network

Hosted in the cloud/on premises

Customisable interface

DCIM - ready to receive notifications from your Edge



Access Control

Standard

Security Keypad and one Access Card (Fob) included per Zella Hut.

Optional

Additional access cards

Barrel key lock access

Other security options are available.
Contact [Zella DC](#) for more information.

Sensors

Single cooling - one temperature sensor

Door sensor alarm

Water sensor

Vibration sensor (optional)

Dual cooling - two temperature sensors

Fire and fire fault alarm

Web camera

Proximity sensor (optional)

Cyber Security

Our intelligent micro data centres are equipped with the latest network security protocols, the most diverse options for user authentication and management, and leverage best in class data encryption methods.

Our products are continuously updated in order to provide the safest deployment experience while meeting the increased network security requirements in high-risk environments.

Password policies. Password expiration ensures passwords are refreshed periodically, preventing hackers from accessing the Zella Hut from any known security breaches.



Firewalls. IP-Based Access control Lists (IP ACL) and Role-Based Access Control (RBAC).



Encryptions. We only enable secure encrypted communication by default (HTTPS and SSH). We use the strongest encryption in the industry.



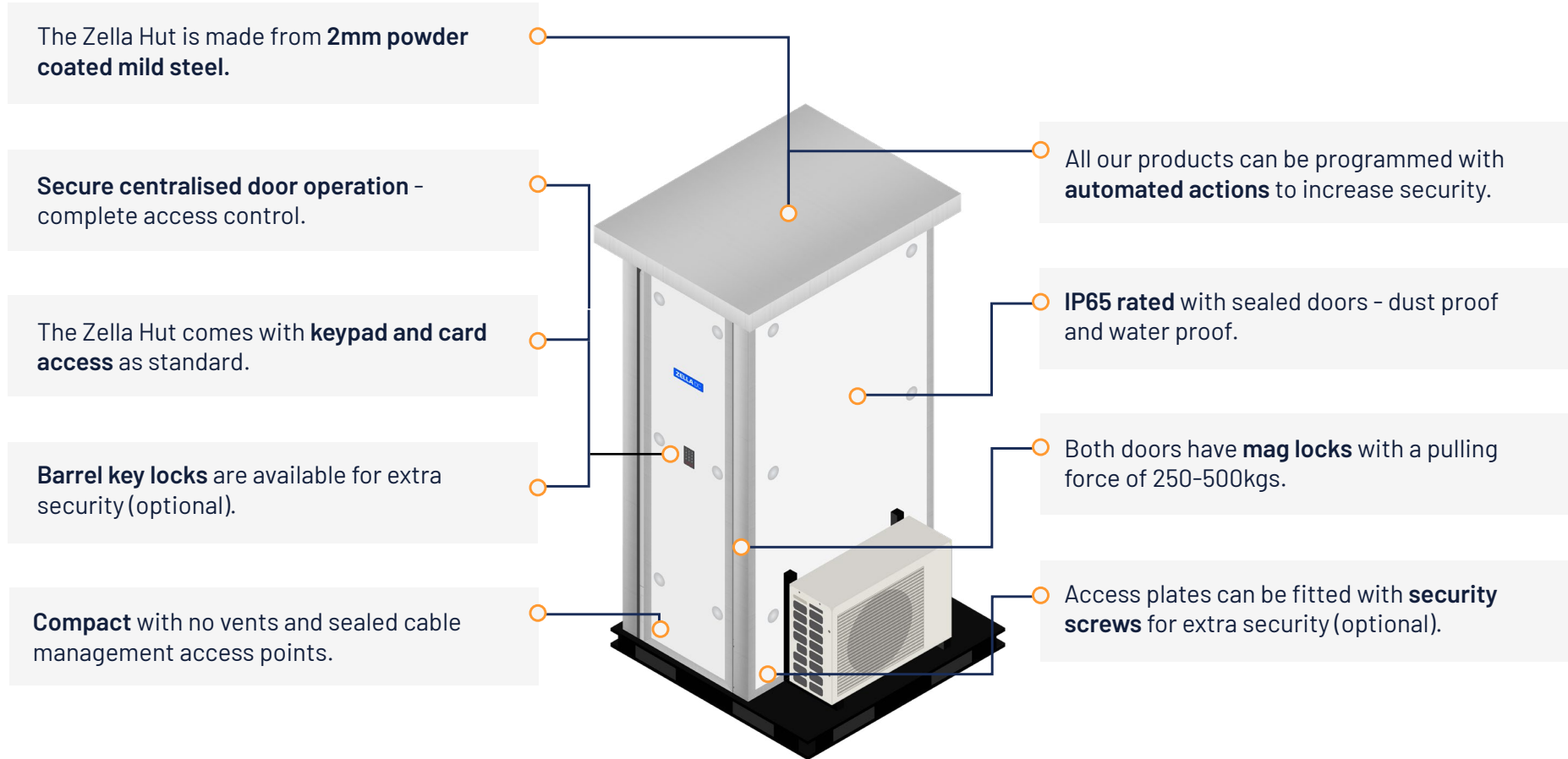
Defences in Depth. Blocking access after repeated failed login, timing out inactive sessions, limiting use of same login, restricted service agreement warnings.



Certificates. CA Certificates and Self-Signed Certificates.



Physical Security



Alarms and Automation

All our products are pre-programmed with a series of automated actions before they leave our warehouse. These automations, that you will be able to further customise to suit your specific needs, are designed to protect your assets and to give you peace of mind.

Loss of Power. In the event of a power cut, the Zella Hut can be programmed to initiate a shut down of non-critical equipment or to turn on a back-up generator.



Temperature fluctuations. When a change in temperature is detected, the Zella Hut can be automated to switch on the spare cooling system, to regulate the temperature or even to open a door.



Physical security breaches. If the unit senses any vibration that suggests someone is tampering with it, not only will this send an alert, but it will also activate the internal camera to capture images.



Full fire control. We've automated this vital function to regularly monitor the system, meaning you will receive an instant notification should there be a problem.



Issues with server reachability. As the Zella Hut continuously pings the servers, if at any time a reply isn't received then an automatic program can be installed that will reboot the server.



Dual cooling. When you have dual cooling, if one cooling system fails, the other one will automatically kick in. The spare cooling system can also switch on in case of a sudden rise in temperature.



Warranty



12 months Zella Care warranty. Applies to all internal electrical and cooling components only.



Extra 2 to 5 years warranty (includes the standard warranty)

Certifications and Ratings

Zella DC Hut Series/Componentry comply with many international standards.



Our product range - Technical Specifications



ZELLA Pro AC

Your indoor data centre

[Download](#)



ZELLA Pro DC

Your indoor data centre

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ZELLA Hut AC

Your outdoor data centre



ZELLA Hut DC

Your outdoor data centre

Coming Soon



ZELLA Max AC

Your containerised data centre

[Download](#)



ZELLA Max DC

Your containerised data centre

Coming Soon



ZELLA Pro

Your instant data centre

[Download](#)



ZELLA Fort

Your rugged data centre

[Download](#)

ZELLA DC

Your data centre, your way

About Zella DC

Over a decade ago Zella DC pioneered the micro data centre. Since then, our next-generation server room in a box have been proven to work in the harshest environments on earth. The result is a vendor-agnostic approach to software, hardware manufactured to global standards, and partners across six continents.

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