

NEW PRODUCT LINE

SMART MODULAR DATA CENTRES

EMBRACE DIGITISATION

Our world is becoming increasingly digital, interlinked and intelligent. The Internet of Things, automation, 5G, robotics and artificial intelligence are opening up many new applications and business models. To capitalise on the opportunities which come with digitalisation, your organisation must rely on a smart and strategic IT infrastructure.

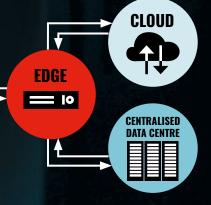
Datwyler IT Infra is a global player that helps organisations to stay at the forefront of progress, elevating their core business. While you focus on developing your business, we take care of your IT infrastructure – with one-stop service solutions tailored to your needs.

IOT

25.7 () 29.4 () 0

WHY EDGE DATA CENTRES?

- Low latency
- Real-time data processing
- Data aggregation
- · Network-independent local operation
- · Protection of your critical data



Use our

CALLBACK SERVICE

We are happy to help you.









SMDC – MULTI-RACK



SMART MODULAR DATA CENTRES

SMDC — SINGLE-RACK

This Smart Modular Data Centre from Datwyler is a compact, preassembled, fully monitored and managed, low-maintenance plug-and-play IT infrastructure solution that can be put into operation on site within a few hours. It is a stand-alone data centre that integrates key elements such as cooling, power supply, monitoring and security into a single solution.

Unlike in-house data centres and server rooms which need extensive planning, maintenance, cost and space, Datwyler's single-rack SMDC is a highly efficient and compact solution that enables businesses to run their applications on-premise or at the Edge.

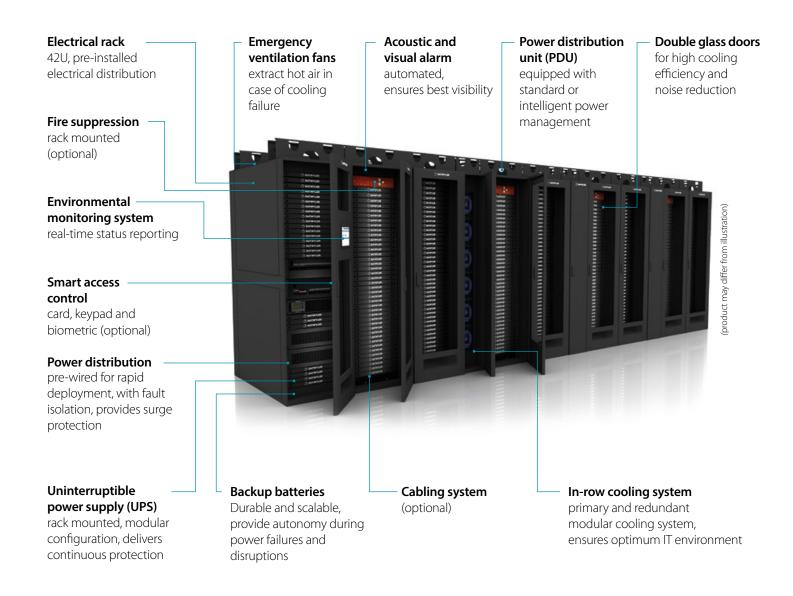
The equipment can be customised according to your needs and requirements.



SMDC — MULTI-RACK

The Smart Modular Data Centre (SMDC) is a scalable, pre-assembled, plug-and-play solution designed for edge computing and optimised for rapid deployment. Each multi-rack SMDC features a configurable power supply unit and a redundant in-row cooling system, providing seamless scalability and technology upgrades with little additional cost or disruption. The multi-rack solution ensures a capacity of up to 40 kVA. It consists of 42U racks, an integrated intelligent power distribution, an uninterruptible power supply (UPS, optionally redundant) and a flexible, compact cooling system with a capacity of up to 25 kW per cooling unit. There is also a fire suppression system (optional), air gap sealing and comprehensive software for infrastructure management.

The multi-rack SMDC supports edge computing, operating smart facilities with IoT devices, remote or branch offices or it serves as a building distributor (BD). Advanced applications include technologies such as AI, AR, VR and automation systems that require flexible, scalable and energy-efficient real-time data processing.



SCALABLE. ENERGY EFFICIENT. RELIABLE.

The amount of data produced will continue to grow exponentially. These data volumes have to be processed close to their source (edge computing) due to, among other factors, efficiency and latency. This requires many small to medium-sized data centres that are smart and modular and can grow with increasing demands.

Our SMDC standard portfolio at a glance.
We also offer bespoke solutions tailored to specific applications

	SMDC 3 kVA	SMDC 10 kVA	SMDC 20 kVA
ready for Tier II ready for Tier III	 UPS3: 3 kVA online UPS system with 15 mins backup batteries PDM6: Power distribution module, up to 6 kVA Cool3.5: 3.5 kW in-rack cooling unit 1 rack, 42U 	 UPS10: 10 kVA online UPS system with 15 mins backup batteries PDM10: Power distribution module, up to 10 kVA 1 Electrical rack, 42U 1 Cool25: 25 kW in-row cooler, 50/60 Hz 3 IT racks, 42U 	 UPS20: 20 kVA online UPS system with 10 to 15 mins backup batteries PDM20: Power distribution module, up to 20 kVA, 125 A (3ph/N/PE) 1 Electrical rack, 42U 1 Cool25: 25 kW in-row cooler, 50/60 Hz 4 IT racks, 42U
Server	up to 10	up to 20	up to 40
Processing load	80–100 CPU cores 6–8 GPUs	150–200 CPU cores 20–24 GPUs	320–400 CPU cores 30–40 GPUs
Network ports	up to 96	up to 128	up to 192



SMDC 30 kVA **SMDC 40 kVA** • UPS30: 30 kVA online UPS system • **UPS40:** 40 kVA online UPS system with 10 to 15 mins backup batteries with 10 to 15 mins backup batteries • PDM40: Power distribution module, • PDM40: Power distribution module up to 40 kVA, 160 A (3ph/N/PE) up to 40 kVA, 160 A (3ph/N/PE) · 1 Electrical rack, 42U · 1 Electrical rack, 42U • **2 Cool25:** 25 kW in-row cooler, 50/60 Hz · 1 Battery rack, 42U · 6 IT racks, 42U • 2 Cool25: 25 kW in-row cooler, 50/60 Hz · 8 IT racks, 42U up to 45 up to 70 450-550 CPU cores 800-1000 CPU cores 50-60 GPUs 100-120 GPUs

up to 288 (or 576 fibre optic)

up to 384 (or 768 fibre optic)

BESPOKE SOLUTIONS

Do you need a data centre solution that deviates from the SMDC standard portfolio? No problem! For many years, Datwyler has successfully implemented data centre projects around the world that couldn't be more diverse, but all have one thing in common: they are tailored to the specific needs of our customers.

Our turnkey approach, which encompasses all phases from design to operation, ensures the seamless implementation of your project. We efficiently budget and accompany implementation, testing and commissioning, ensuring a reliable, scalable and future-proof solution whose performance we further enhance through continuous maintenance and optimisation.





IT SAFE

The modular compact data centre designed to secure your IT infrastructure

- · IT protection with high availability
- · Compact: less than 2 m²
- · Flexible, modular and expandable
- · Maximum IT security
- · Standard with two doors at the front and two at the back
- Monitoring
- · Energy efficient systems
- · Fully redundant cooling system (optional)
- · Cooling units designed for continuous operation
- · Immediately applicable

DATA CENTRE CONTAINER

Mobile, modular, robust and absolutely reliable.

Use a mobile data centre container wherever critical applications, data and servers are used in your business.

In addition to mobile and modular use, a data centre container protects against dust, damage, fire, rain, water and unauthorised access.



- · Fully welded steel container
- $\cdot\,$ Fire protection: El90, El60, El30 (i -> o) according to EN 13501-2 and EN 1363-1
- · Dust and water tightness IP 56 according to EN 60529
- · Smoke tightness according to EN 1634-3
- · Class RC 3-4 burglar resistance according to EN 1627/EN1630
- · Corrosion protection system: class C1 (indoor areas) to class C5 (coast) according to DIN EN ISO 12944



DATWYLER SERVICES



SMART MODULAR DATA CENTRE ONLINE CONFIGURATOR

The configurator for our Smart Modular Data Centres (SMDC) offers you the opportunity to easily plan and design the desired IT infrastructure solution – from single rack to multi-rack and even larger data centre solutions.

Just contact us. We'll be happy to help you configure your SMDC!

EFFECTIVE EXPERT SERVICES

Companies can optimise their resources and concentrate on their core competences by outsourcing IT tasks to specialist providers like Datwyler, while at the same time ensuring that their IT systems are always state-of-the-art and safe from cyber attacks.

Our services cover the whole value chain: from site surveys, conception and system engineering through installation, logistics and turnkey supply to documentation and system maintenance. The basis for this is our competence in product design, our operating experience, our international presence and our globally established partner network.

Datwyler believes that individual and flexible solutions are part of a good service. First-class support and fast response times in the event of problems are a matter of course for us.

DATA CENTRE INFRASTRUCTURE AND DATA NETWORK SERVICES

The Datwyler data centre infrastructure and data network range of services includes all the technical and site-related measures needed to ensure the successful design and project implementation of your IT infrastructures as well as their professional maintenance, for example

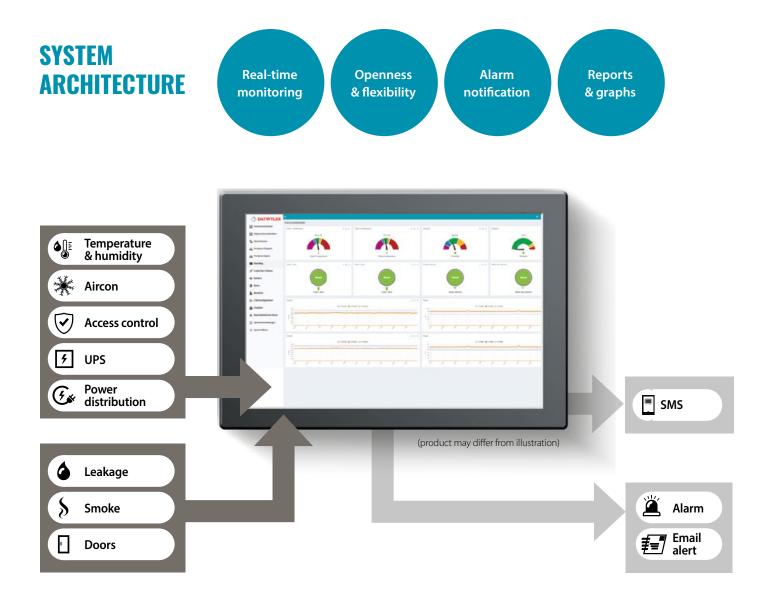
- Design and consultancy
- Audit and assessment
- Financing and leasing
- Turnkey implementation and commissioning
- Maintenance and repair



Further information

DCIM – DATA CENTRE INFRASTRUCTURE MANAGEMENT

The Datwyler Data Centre Infrastructure Management (DCIM) system provides a top level as well as a detailed overview of the status of IT infrastructure housed within a Smart Modular Data Centre. The system is characterised by real time remote monitoring of environmental conditions, access and energy consumption of IT infrastructure devices and systems. In case of faults or emergencies the system is capable of alerting the user to take timely and necessary action to protect the mission critical IT systems.



DCIM FEATURES

- · Multilingual Web GUI with integrated logic
- · Autosensing ports for the automatic detection of sensors
- · User access management
- · Integrated interfaces: Ethernet, USB, CAN, analog & digital
- · SNMP-compatible
- $\cdot\,$ Provides notifications and alerts such as email, SMS and SNMP traps
- Extensive range of sensors for environmental monitoring, security control and power monitoring
- · USB interface for video camera
- · SD card slot for optional SD card (max. 64 GB)
- · SIM card slot for optional LTE modem
- · Alarms for maintenance and critical events
- · Graphical representation of environmental data

TYPICAL APPLICATIONS























Data centres

Office buildings

Public buildings

Manufacturing

Education

Shopping malls

Event arenas

Transport hubs

BENEFITS AT A GLANCE

Ease of use

• Pre-configured for various operational scenarios, therefore fast ordering

- Plug-and-play solution
 - Rapid deployment
- Touch-screen and user-friendly software

High reliability

- Quality of each individual component is tested prior to delivery
- The environment and security monitoring system protects the equipment
 - · All data is managed and stored redundantly on
 - local storage media as well as in the Cloud • Can be monitored anywhere and anytime
 - Proactive alarm notification via email and/or SMS

Low TCO (Total Cost of Ownership)

- Real-time monitoring of the UPS and cooling unit helps to save energy
- Integrated cooling ensures high power usage effectiveness (PUE) • Small footprint and fast deployment
 - Constant monitoring reduces downtime caused by failure

Fast maintenance

- Key components are of modular design • UPS with maintenance bypass
- Remote management of all the equipment in the rack(s) allows authorised personnel to be alerted so that faults can be rectified before they have serious consequences

DATWYLER'S SMART MODULAR DATA CENTRES CREATE VALUE!





outstanding expertise.

