



## Data Centre Solutions

## Briticom Series Container Data Centre Solution



### Description

The Briticom series container data centre features an all-in-one design with factory-prefabricated installation. It integrates power supply and distribution, air conditioning, cabinet systems, closed aisle configuration, monitoring, and fire protection—all within a single container. This creates a self-sufficient unit that can be easily monitored and managed through the eSite monitoring system, fulfilling the outdoor data centre requirements for rapid deployment and agile delivery.

### Safe and reliable

- All components follow domestic and international standardized production standard to ensure product quality.
- IP55 protection, with excellent waterproof performance, suitable for a variety of complex scenes.
- Redundant design of key components to improve system reliability
- Integrated video, access control and intelligent monitoring management system to ensure safe and reliable equipment operation.

### High efficiency and energy saving

- All-in-one design, hot and cold aisle isolation, fully enclosed design, improve the efficiency of cooling capacity and save energy.
- Adopt full inverter precision air conditioner, output cooling capacity on demand, precise cooling and save more energy. Adopt energy-efficient modular UPS with intelligent sleeping function, more energy-saving.
- Integrated design of power distribution cabinet and UPS, saving space.

### Rapid installation

- Power supply and distribution, air conditioner, cabinets system, closed access, monitoring system and fire protection system are factory prefabricated and pre-installed, plug-and-play.
- Standard container, in line with domestic and international sea and land transportation conditions, worldwide reachable.
- No need for professional server room, can be installed directly on the concrete floor of the building or outdoor, simple and fast.

### Intelligent management

- Intelligently monitor the working status of power and environmental system.
- Real-time alerts can be made in time via SMS, telephone voice, email, sound and light.
- Provide a variety of human-machine interaction methods such as O&M screen, remote APP, local LCD and Web.
- Provides Modbus TCP, MQTT and other northbound interfaces to facilitate system integration

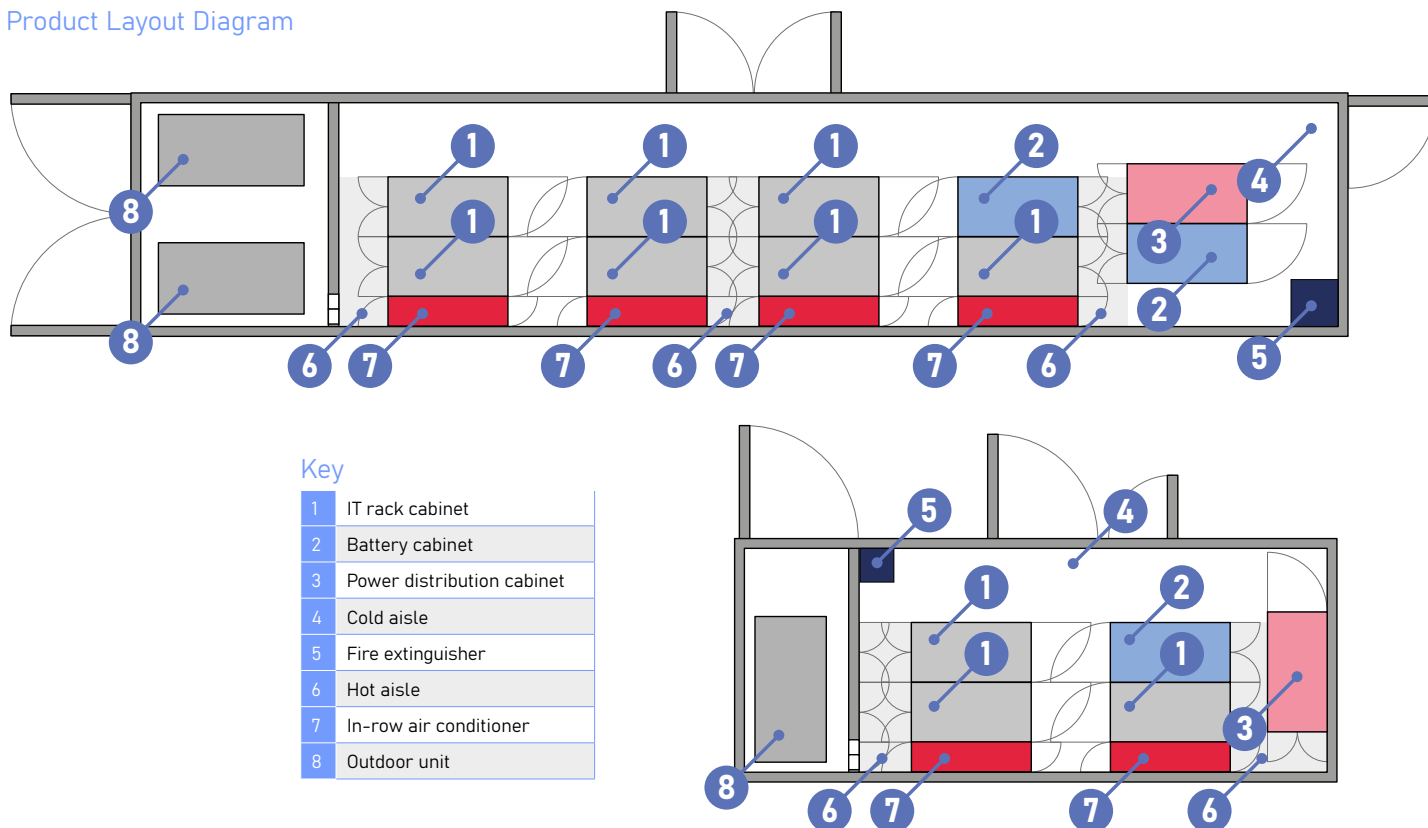
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### Product Layout Diagram



### Applicable Scene

It is especially suitable for data centres in special industries such as sports venue construction, military camp deployment, oil exploration, marine scientific research, disaster preparedness, and emergency communications, as well as data centres restricted by space, geographical environment, and environmental protection.



Oil exploration

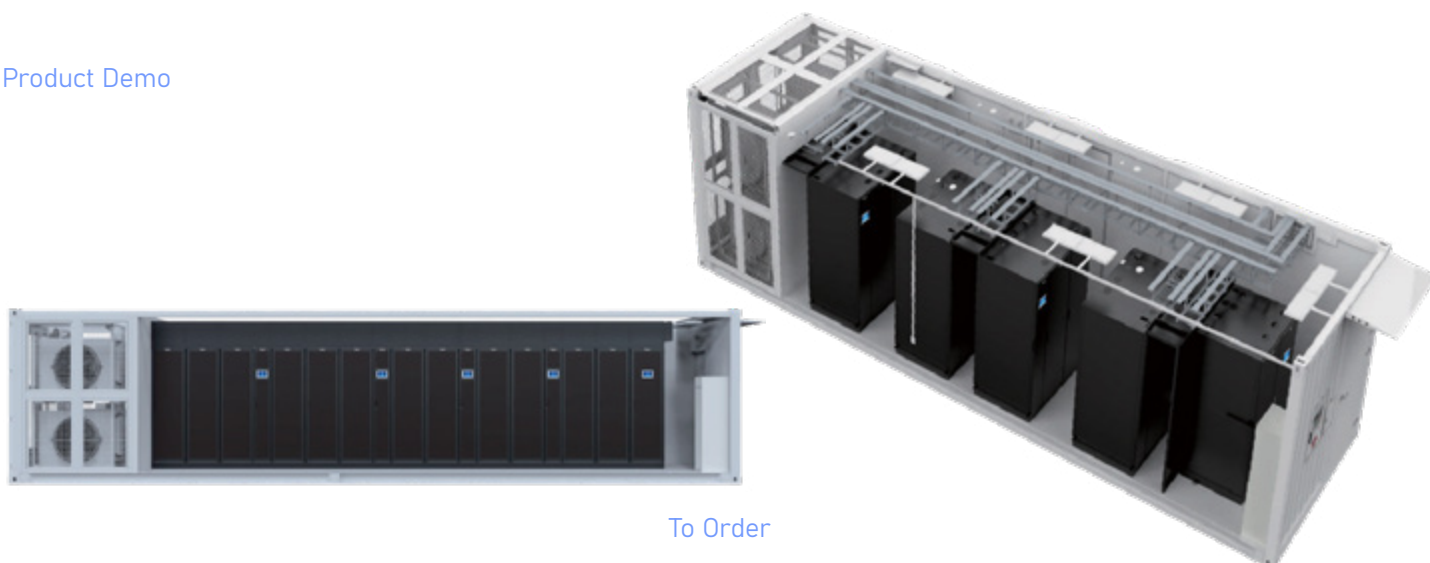


Marine scientific research



Emergency communications

### Product Demo



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## Parameters

| Briticom Container Data Centre Product Specification |                              |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                      |
|------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|                                                      |                              | 40ft layout All-In-One solution                                                                                                                                                                                                                                                                                                              | 20ft layout All-In-One solution                                                                                      |
| Cabinet System                                       | Size of IT cabinet (W×D×H)mm | 600×1200×2000                                                                                                                                                                                                                                                                                                                                | 600×1200×2000                                                                                                        |
|                                                      | Num. of IT cabinet (pcs)     | 8                                                                                                                                                                                                                                                                                                                                            | 3                                                                                                                    |
|                                                      | Power of each cabinet(kW)    | 6/9(High density)                                                                                                                                                                                                                                                                                                                            | 6/9(High density)                                                                                                    |
|                                                      | Total power (kW)             | 48/72(High density)                                                                                                                                                                                                                                                                                                                          | 18/27(High density)                                                                                                  |
| Power and Distribution System                        | Power supply system          | 250A Dual input/ATS optional; 380/400/415V, 50/60Hz, 3Ph+N+PE; input lightning protection 8/20us, In=20kA, Imax=40kA                                                                                                                                                                                                                         | 125A Dual input/ATS optional; 380/400/415V, 50/60Hz, 3Ph+N+PE; input lightning protection 8/20us, In=20kA, Imax=40kA |
|                                                      | UPS                          | Modular Online UPS 90~150kVA                                                                                                                                                                                                                                                                                                                 | Modular Online UPS 40~90kVA                                                                                          |
|                                                      | Battery back-up time         | In-row battery cabinet, the number of battery and capacity can be selected according to project requirements                                                                                                                                                                                                                                 |                                                                                                                      |
|                                                      | PDU                          | 16 port IEC PDU(C13*12+C19*4),32A                                                                                                                                                                                                                                                                                                            |                                                                                                                      |
| Cooling System                                       | Cooling method               | Default installation of 25kW air-cooled inverter in-row air conditioner (300mm wide)                                                                                                                                                                                                                                                         |                                                                                                                      |
| Monitoring System                                    | Power and environment system | Monitoring host can realize the centralized monitoring of integrated power distribution cabinet, UPS, air conditioning, access control, video, fire, etc., and support sound and light, telephone, WeChat, SMS, e-mail multiple alarm methods                                                                                                |                                                                                                                      |
|                                                      | Access control               | Support IC card + password + fingerprint three-in-one access control system, optional face recognition                                                                                                                                                                                                                                       |                                                                                                                      |
|                                                      | Local Display                | Support 10.1 inch touch screen, support local touch screen, client, remote Web, mobile app and other display methods                                                                                                                                                                                                                         |                                                                                                                      |
| Fire Prevention System                               | Fire extinguishing system    | Automatic flooding fire extinguishing system, cold/hot aisles are equipped with smoke and temperature sensor, automatic control of fire gas release , support for sound and light, gas release indicator and other warning methods, support for manual emergency opening of the fire extinguishing system (optional Pipe fire extinguishers) |                                                                                                                      |
|                                                      | Fire extinguishing gas       | FM200/HFC-227ea (Novec 1230 optional)                                                                                                                                                                                                                                                                                                        |                                                                                                                      |
| Container Structure                                  | Container size (H×W×L)mm     | 40ft:2896×2438×12192                                                                                                                                                                                                                                                                                                                         | 20ft:2896×2438×6058                                                                                                  |
|                                                      | Weight of container (T)      | 8                                                                                                                                                                                                                                                                                                                                            | 4                                                                                                                    |
|                                                      | Container load-bearing (T)   | 15                                                                                                                                                                                                                                                                                                                                           | 7                                                                                                                    |
|                                                      | Container protection         | Waterproof, dustproof, anti-mold, protection grade:IP55                                                                                                                                                                                                                                                                                      |                                                                                                                      |
| Operation Environment                                | Ambient temperature (°C)     | -40~50 (-20°C below require optional low temperature components and water pipes need to do insulation treatment)                                                                                                                                                                                                                             |                                                                                                                      |
|                                                      | Altitude (m)                 | More than 1000m need to be derated                                                                                                                                                                                                                                                                                                           |                                                                                                                      |

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## eSite Monitoring System

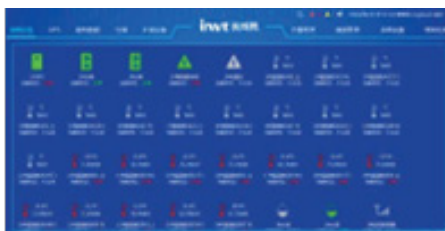
### Product Introduction

The eSite monitoring system adopts the centralized monitoring of IoT, the composition of the local power and environment monitoring host and the expanded control module, providing a set of the computer room monitoring system with complete functions, flexible deployment and high reliability

- Support the intelligent detection of all equipment such as UPS, air conditioner, power distribution, environmental detection, security, fire protection, etc.;
- Support multiple monitoring methods such as local LCD, local web, cloud web, mobile APP, etc.;
- Support multiple alarm methods such as telephone, SMS, email, audible and visual alarm;
- Support multiple northbound interfaces such as MQTT, ModbusTCP, SNMP, etc.;



### Monitoring Interface



### Performance Characteristics



Complete history record, with event processing record function, and download and export



WEB access setting, no need for B/S structure software installation



Standardized connection makes implementation easier and faster.



Diversified warning methods, such as SMS, mail files, sound and light.



Modular design,easy to install and maintenance.



Built-in large-capacity SD card can store long time history events and data records.



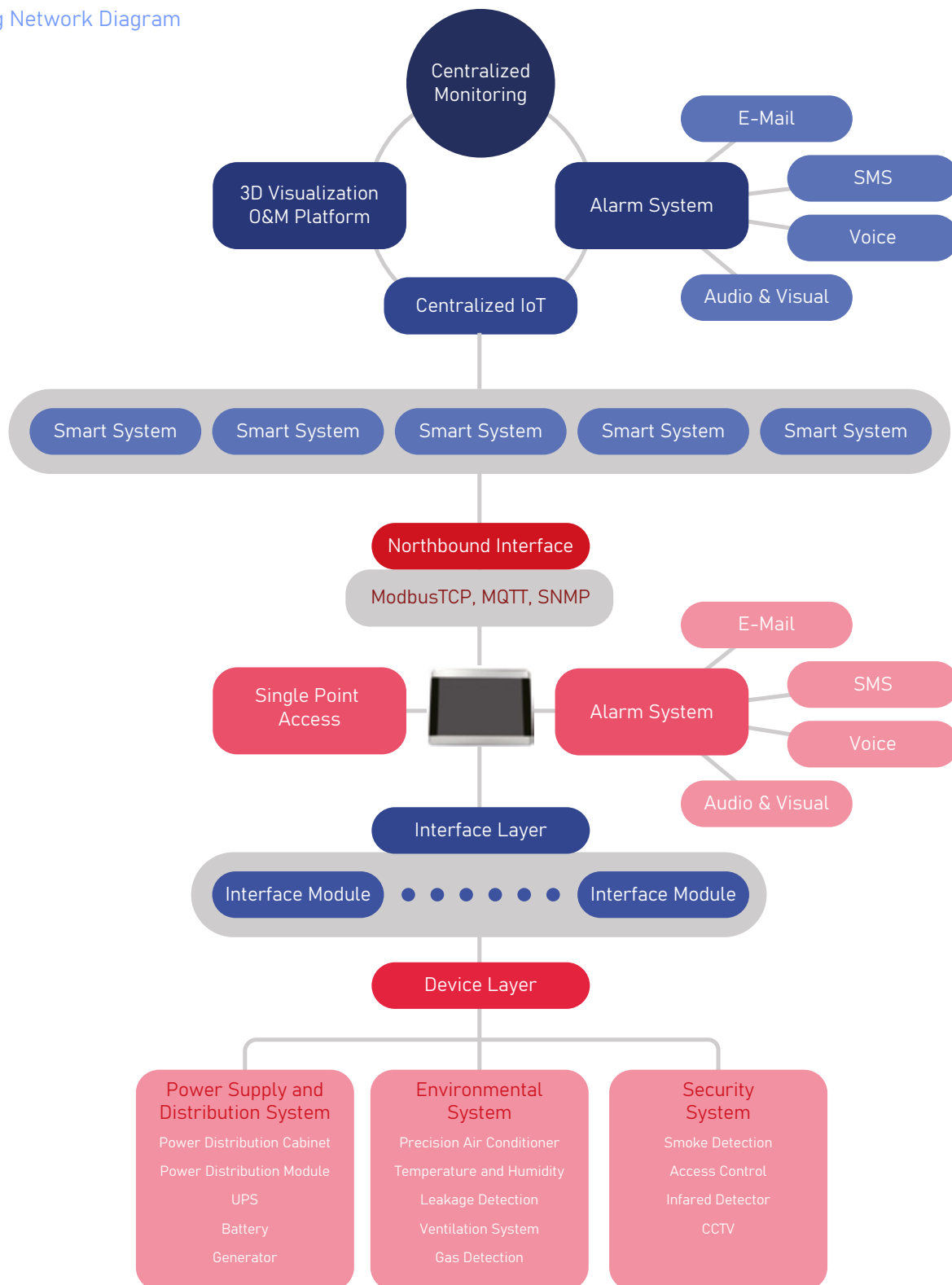
LCD monitor, mainframe visual management

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Monitoring Network Diagram



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