

Rittal – The System.

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Blue e IoT Adaptor

The digital upgrade for cooling units in the Blue e series



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Functional upgrade – digital retrofit

For many companies in the industrial space, digitalization is a hot topic. Facilities often have low levels of automation and investing in the latest machines is costly. Additionally, interlinking them can be a complex process.

However, existing machines and systems can also be digitally upgraded. By retrofitting current equipment with suitable sensors and communications technology, they may be readily integrated into a digital manufacturing network.

The IoT Adapter, in conjunction with the IoT Interface, allows existing Blue e cooling units to be easily incorporated into Industry 4.0 environments. This digital retrofit supports state-of-the-art condition monitoring and significantly boosts system availability.

Benefits of the digital retrofit

- Investment costs are lower than for a new purchase
- Logging of process and machine data for Industry 4.0
- Modernization and adaptation to current software and system standards

Benefits of smart networking

- Condition monitoring of up to 10 cooling units in a master/slave arrangement
- Continuous monitoring of temperature levels
- A swift response if threshold values are exceeded
- Automatic notification of any cooling unit malfunctions
- Temperature records and energy efficiency analysis
- Avoidance of downtime costs and consequential damage
- Remote access: Device parameters can be configured remotely



For more information about the IoT interface (3124.300)



For more information about the Blue e IoT adaptor (3124.310)



Operating & monitoring
IoT, SCADA,
MES and ERP systems



IoT interface



Blue e IoT adaptor



Rittal cooling unit



TopTherm wall-mounted cooling unit Blue e



TopTherm wall-mounted cooling unit, horizontal format



TopTherm wall-mounted cooling unit Blue e, slimline



Modular climate control concept - cooling module Blue e



TopTherm roof-mounted cooling unit Blue e and/or for office applications



Control/regulation

Control/regulation



Blue e IoT adaptor

The IoT interface is a central component for the intelligent networking of Rittal cooling solutions or sensors for monitoring physical ambient conditions. Equipped with a wide range of interfaces and protocols, it is used to collate and transmit data to superordinate IT systems or to systems for the local monitoring of machine statuses.

Benefits:

- Digitalization and networking offer huge opportunities for every company. With the IoT interface, Rittal cooling solutions and sensors for monitoring physical ambient conditions are easily connected to Industry 4.0 environments without affecting the automation logic.
- Plug and run: The IoT interface is quickly and conveniently configured and commissioned via the integral Web server; no programming required.

Material:

- Plastic to UL 94-V0

Color:

- RAL 7016

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- Blue e IoT adaptor
- USB cable (USB-A connector on micro-USB-B connector)
- Angle bracket for Blue e+ cooling unit

Note:

- The IoT interface is only supported by Blue e+ cooling units from firmware version 1.11.0 or above. If applicable, update the firmware using the RiDiag III software (3159.300).
- To interlink cooling units in the Blue e series, the Blue e IoT adaptor (3124.310) is additionally required



Assembly instruction:

- The IoT interface can be secured on a 35 x 7.5 top hat rail to DIN EN 60715 using a spring-loaded metal clip, or to the rear of a Blue e+ cooling unit using the angle bracket.



Accessories:

- Blue e IoT adaptor, see page 7

H x W x D in (mm)	4.61 x 0.71 x 4.72 (117 x 18 x 120)
For	TopTherm cooling units with e-Comfort controller Blue e+ cooling units Blue e+ chillers Smart Monitoring System for NH fuse-switch disconnectors Rittal sensors
Operating temperature range	+0 °C...+70 °C
Protocols	OPC-UA/SNMPv1/SNMPv2c/SNMPv3/Modbus/TCP/TCP/IPv4/TCP/IPv6/Radius/Telnet/SSH/FTP/SFTP/HTTP/HTTPS/NTP/DHCP/DNS/SMTP/Syslog/LDAP
Interfaces	1 x Micro USB type B (device) for USB 2.0 1 x Micro-SD memory card slot for SD 2.0 1 x USB 2.0 high-speed functions (EHC) 1 x acknowledgment button 1 x push-in spring connection terminal for NTC sensor 2 x RJ45 jack for RS 485 interface (climate control unit interface)
Network interface	Ethernet IPv4/IPv6 Ethernet to IEEE 802.3 via 10BASE-T, 100BASE-T and 1000BASE-T
Interface bus system	2 x RJ45 CAN bus
Type of electrical connection	Push-in spring connection terminal (24V DC)
Weight lb (kg)	0.613 (0.201)
Packs of	1 pc(s).
Model No.	3124.300

Blue e IoT adaptor

In conjunction with the IoT interface, the adaptor supports intelligent networking of cooling units in the Blue e series.

Benefits:

- Digitalization and networking offer huge opportunities for every company. In conjunction with the IoT interface (3124.300), cooling units in the Blue e series are easily connected to Industry 4.0 environments without affecting the automation logic.
- Plug and run: The IoT interface is quickly and conveniently configured and commissioned via the integral Web server; no programming required.
- Condition monitoring of up to 10 cooling units in a master/slave arrangement

Material:

- Plastic
- Front: Smooth
- Enclosure: Textured

Color:

- Front: RAL 9005 (Black)
- Enclosure: RAL 7035 (Light Gray)

Protection category IP to IEC 60 529:

- IP 30

Supply includes:

- Blue e IoT adaptor
- Installation and Short User's Guide
- Mounting bracket
- Assembly parts
- Sub-D to RJ11 connection cable
- Mounting clips for securing top-hat rails



Also required:

- IoT interface, see page 6

To fit Model No.	3303.5/6xx/3304.5/6xx/3305.5/6xx/3328.5/6xx/3329.5/6xx/3332.5/6xx/ 3361.5/6xx/3366.5/6xx/3377.5/6xx/3307.7xx/3310.7xx/3382.5/6xx/3359.5/6xx/ 3383.5/6xx/3273.500/3384.5/6xx/3385.5/6xx/3386.5/6xx/3387.5/6xx/9776.550
H x W x D in (mm)	1.18 x 3.15 x 1.57 (30 x 80 x 40)
For	TopTherm cooling units with e-Comfort controller
Operating temperature range	+0 °C...+55 °C
Interface bus system	2 x RJ45 CAN bus
Weight lb (kg)	0.443 (0.201)
Packs of	1 pc(s).
Model No.	3124.310

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