

Rittal – The System.

Faster – better – everywhere.

▶ IoT interface – allows devices and systems to communicate face to face.

Cooling units can be equipped with a wide range of communication technology and are playing an increasingly important role in Industry 4.0. Seamless communication between sensors inside the cooling unit and cloud-based systems is opening up opportunities for new applications. Essential to these applications are IoT- capable devices such as the new cooling units and chillers in the Rittal Blue e+ climate control product offering.

Remotely-accessed devices and predictive maintenance are based on the provision of data and networked communications. For this to happen, IoT-compatible devices equipped with the necessary communication options are required. With our Blue e+ platform and the new IoT interface, Rittal is laying the foundation for the optimal integration of cooling units and chillers in Industry 4.0 applications. This makes continuous communication from the sensor to the cloud possible, as well as connection to external monitoring or energy management systems.

Rittal's IoT interface supports; OPC-UA, Profinet, SNMP, Modbus TCP and CANopen – allowing climate control solutions to be easily integrated into IoT applications and paving the way for new applications and smart service solutions.

- With the CMC sensors and the IoT interface, temperature, humidity, access, smoke, energy and many other physical environmental parameters can be monitored.
- The system has a modular structure and can be easily adapted to the monitoring.
- Network monitoring and automation of security processes provide benefits such as improved machine availability and reduced maintenance costs.

For more information contact customer service at 800-477-4000 or email customerservice@rittal.us



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IoT Interface

The IoT interface is used to link Rittal components such as Blue e+ cooling units, Blue e+ chillers, smart monitoring systems etc. to the customer's own monitoring and/or energy management systems. Data may be integrated both horizontally and vertically into data collectors and processors, to allow the long-term logging and evaluation of device data, statuses and system messages.

Communication protocols:

SNMPv1, SNMPv2c, SNMPv3, OPC-UA, Modbus/ TCP, CAN bus, Profinet

Network protocols:

Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS, SMTP, Syslog, LDAP, RADIUS

Benefits:

- The IoT interface is middleware, whose interfaces allow a variety of devices and systems to communicate with one another. The data can then be forwarded into superordinate systems.

Material:

- Plastic to UL 94-V0

Color:

- RAL 7016 Anthracite grey

Protection category IP to IEC 60529:

- IP 20

Supply includes:

- Connection cable (1 m) with RJ 45 connector
- Angle bracket for Blue e+ cooling unit



Assembly instruction:

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

Model No.	3124.300
W x H x D in. (mm)	0.07 x 4.6 x 4.72 (18 x 117 x 120)
For	Blue e+ cooling units Blue e+ chillers Smart monitoring system CMC III sensors
Operating temperature range °F (°C)	+32°F...+158°F (+0°C...+70°C)
Protocols	SNMP OPC-US Modbus/TCP CAN bus Profinet
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 (EHCI) 1 x acknowledgement button 1 x 3-pole 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
Type of electrical connection	3-pole push-in spring connection terminal (24 V DC)

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