

Product Specification

SQ-Connector

The Carenuity Gateway for Matter



The SQ-Connector is the dedicated Matter gateway for the SQ-Panel, enabling secure and seamless integration into modern smart home and building ecosystems. It acts as the central communication interface between the SQ-Panel sensors and Matter-compatible platforms, ensuring interoperable and future-proof connectivity across vendors and systems.

Designed for reliable continuous operation, the SQ-Connector aggregates sensor data, manages device communication, and provides a standardized interface for control and monitoring. In combination with the SQ-Panel, it forms a scalable and standards-based solution for smart home and smart building applications, supporting professional installations and long-term system stability.

Datasheet

SQ-Connector – V1
Doc-Ref. CG-5222000

Doc-Version 1.3
Valid from: 2024-04-25



Basic Information

Product series	Carenuity Gateway
Type	Desktop Border Router
Platform	Raspberry Pi 3B+
Power input	5V/1A DC
Power connector	Micro USB Type-B
Internet connection	Ethernet
Wi-Fi	Disabled
Certification	CE/ROHS/WEEE

Appearance

Dimensions	94x64x31mm
Weight	115g

Features

Operating system	Debian
Processor	Broadcom BCM2837B
Memory	1GB
Storage	32GB SD Card, Included, OS Pre-installed
Radio Co-processor	Silicon Labs EFR32 SoC
Mobile App operating system	Android & iOS
Cloud connection and data logging	Yes
Data analysis and presentation	Yes, over Mobile App
OTA system updates	Yes

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Wireless standard

PHY/MAC/6LOWPAN	IEEE 802.15.4
Protocol	Openthread Sub-GHz at 868.3 MHz
Application Protocols	Secure CoAP, MQTT, NAT64
Antenna	PCB antenna
Encryption type	DTLS/AES 128

Working Environment

Applicable place	Indoor
Working temperature	0 ~ 50 °C
Working humidity	Up to 80 % RH