



NCC[®]
NATIONAL CONTROLS
CORPORATION

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NCC Gateway
IOT – CLOUD CONNECTIVITY

NCC Gateway

IOT GATEWAY FOR FOOD EQUIPMENT

Introducing the IoT Gateway NCC Gateway, a cutting-edge solution designed to enhance connectivity with commercial food equipment through their advanced computer controllers.

This innovative gateway is particularly valuable for integrating legacy food equipment, which often comes in various sizes and configurations. With the capability to connect up to four controllers linked together using RS485, the NCC Gateway streamlines communication and data exchange, paving the way for improved operational efficiency and smarter management of food processing systems.



Key Facts

- **Report Management – Boost efficiency**
 - Consumption data (Water & Electric)
 - Error logs/needed actions
 - Cycle rates
 - Demand analysis (food) – Determine peak periods during each daypart
- **Asset Management – Simplify record keeping**
 - Equipment Identification Model/Serial #
 - Install date, location & warranty period
- **Menu Management – Simplify user experience**
 - Up/download recipes& picture base menu items
 - Daypart assignments (Breakfast, Lunch & Dinner offerings)
- **Service Management – Simplify maintenance experience**
 - Equipment diagnostics
 - Service reports
 - Preventive maintenance programs
 - Access manuals, equipment documents & videos

Standards/Certificates/Quality Seals

- **Conformities**
FCC, UL

Scope of delivery

NCC Gateway	xxx xxxx xxx
Leaflet: PBB_NCC Gateway	xxx xxxx xxx

Technical Data

Operating Voltage	24 VAC +/- 10%, 50/60 Hz, 40 VA max
Power Consumption	TBD
Operating Ambient Temperature	0 °C... 70 °C
Storage Ambient Temperature	0 °C... 70 °C
Communications Network	RS485 – between IO Gateway and device WiFi – Connect to cloud Ethernet – Connect to cloud
Communication Protocols	Modbus (Variant) – between IO Gateway and Fryer https with JSON – communicate to cloud
Security and Authentication	WiFi – WPA2-TKIP, WPA2-AES, WPA2-Enterprise, WPA3, WPA3-Enterprise, WPS, WEP Network – SSL/TLS encryption Authentication – Oauth 2.0
Provisioning and Commissioning Methods	AP mode Provisioning and Commissioning
Connectors	1 x RJ45 1 x Antenna SMA Connector 1 x USB Type A 1 x RS485 – 4 pins 1 x Power Supply Connector
Wireless Operating Bandwidth	Dual band with both 2.5 GHz and 5 GHz, configurable through software
Parameter data refresh rates	30 s
Operating Environment	0 °C...70 °C, 5...95% RH
Dimensions	168 mm x 84 mm x 28 mm
Agency Recognitions	FCC, CE, UL (Pending)

Dimensions (inch)

