



**NCC<sup>®</sup>**  
NATIONAL CONTROLS  
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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

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

#### Dimensions (inch)

