*Home Screen for Service Provider*

**SOFTWARE SYSTEMS**

Rice Lake's VIRTUlink IoT System connects analog platform scales (up to four iQUBE systems) to the cloud, enabling data from networked devices to be utilized for a wide variety of business and operational decisions. By combining the iQUBE digital junction box with the latest cloud technology, VIRTUlink provides access to diagnostics and can automate service alerts.

VIRTUlink-enabled systems can automatically report scale status and individual load cell information. iQUBE's unique load cell emulation feature allows it to compensate for a failing load cell until a repair can be made. With an unmatched reaction time, accuracy is brought to new levels.

## Standard Features

**Data**
- Sends raw and analyzed values from the scale to the cloud
- Supports long-term efficiency by providing scale and throughput records
- Expandable with support for multiple data points from junction boxes, auxiliary equipment, sensors and IP cameras

**Diagnostics**
- Enhanced onboard diagnostics identify cell noise, tests for linearity and zero-reference, and monitors drift
- Diagnostics are complemented by a unique load cell emulation feature which compensates for a failing load cell until a repair can be made
- Unmatched reaction time (500 cycles per second) brings accuracy to new levels

**Dashboard**
- Online portal to monitor scale status in real-time
- Receive alert text and/or emails when scale is outside of programmable tolerances
- Remotely identify service needs and review technician notes
- Hosted on a cloud platform

## Specifications

**Communication:**
Ethernet TCP/IP

**Power Connector:**
3-pin terminal block (3.5 mm)

**Power Supply:**
24 V DC ± 6 V DC

**Conformity with UL:**
Use Class 2 power source, Over-voltage Category II

**Current (at 24 V DC):**
170 mA (typical)

**Operating System:**
Security-hardened Linux

**Display:**
8 LEDs

**Real-time Clock:**
Capacitor buffered, maximum 7 days backup, maintenance free

**Required Accessible Ports:**
http (80)
https (443)
MQTT (1883)
MQTT over SSL (8883)
AMQP (5672)
AMQPS (5671)

**Environment Protection:**
IP20

**Ambient Temperature:**
Operation: -20 °C to 60 °C
Storage: -40 °C to 85 °C

**Humidity:**
10% to 95% (95% at 40 °C) RH (non-condensing)

**Use:**
Indoor

**Dimensions:**
5.5 × 1.38 × 4.13 in
(140 × 35 × 105 mm)

**Weight:**
0.89 lb (400 g)

**Metal Housing:**
DIN top hat rail mount

**Approvals:**
UL Nr. E221530 Vol D1
FCC ID 2ANEG0001
IC 24152-0001
KCC No. R-C-HKR-ETP51EN-RE
UL Japan No. 007-AH0211
RoHS
Conformance with EMC Directives: CE Emission EN 55011:2009
Immunity IEC 61000-6-2/3, EN 61131-2
Electrostatic discharge (ESD)
(air and contact discharge method) EN 61000-4-2
Fast transient interferences (Burst) EN 61000-4-4
Surge voltage EN 61000-4-5

# VIRTUlink™
## Scale Monitoring and Diagnostics System

## Part Numbers/Price

| Part # | Description | Price |
|---|---|---|
| 209604 | VIRTUlink secure gateway | Consult |
| 215212 | Power supply for VIRTUlink secure gateway, 3 wire AC power and DC hookup 24 VDC cord (12 in) | Consult |
| 215213 | 24 VDC output wall adapter, 100 to 240 VAC input, 12W | Consult |
| 211283 | VIRTUlink cloud service contract, annual agreement | Consult |

*Specifications subject to change without notice.*



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