



VIRTUlink™ connects weighing equipment to the cloud, enabling data from networked devices to be utilized for a wide variety of business and operational decisions.

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 VDC ± 6 VDC

Conformity with UL:

Use Class 2 power source, Over-voltage Category II

Current (at 24 VDC):

170 mA (typical)

Operating System:

Security-hardened Linux

Display:

8 LEDs (2 programmable)

Real-time Clock:

Capacitor buffered, maximum 7 days backup, maintenance free

Gateway Hardware/Communication

Memory:

Integrated memory 1 GB DDR3 RAM, SD card 32 GB MLC NAND, Micro SD card

IT Interface:

1 x 10/100 Mbit, Microchip LAN9514
1 x RJ45 socket LAN connector

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 Range:

10% to 95% (95% at 40 °C)
relative humidity (non-condensing)

Use:

Indoor

Dimensions:

5.5 × 1.38 × 1.13 in
(140 mm x 35 mm x 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

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 inches)	Consult
215213	24 VDC output wall adapter, 100 to 240VAC input, 12W	Consult
211283	VIRTUlink cloud service contract, annual agreement	Consult

Specifications subject to change without notice.

SOFTWARE SYSTEMS

The screenshots illustrate the VIRTUlink software interface for monitoring a truck scale. The main dashboard displays a grid of 16 cells, each with a status indicator and voltage reading. Alerts are categorized by type and date, providing a detailed history of system events. The home screen offers a summary of recent alerts, service notes, and assets under watch, along with specific information about emulation mode load cells.