WIONIQ™



EDGE CONTROLLER EC315

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Medium sized Edge Controller for remote PLC/ sensor data logging and monitoring

For remote monitoring of your PLC and sensor applications Wioniq has developed the EC315 Edge Controller - part of a powerful series of Remote Terminal Units (RTUs) designed for secure telemetry over the internet. The EC315 operates either stand-alone or as part of a secure domain in Wioniq IQ — Wioniq's Software as a Service (SaaS) platform for advanced WEBscada and WEBmes applications.

The EC315 enables controlling and monitoring of remote processes and machines. This Edge Controller is the gateway between the local process controller (e.g. PLC) and Wioniq IQ. It communicates real time with virtually any existing process controller, without modifying existing PLC software. Connectivity is established using a 4G APN or DSL, ensuring reliable data transmission from virtually any location.

With our Smart Technology you get the best solution for your application.

Smart diagnostics in sewage applications.

The EC315 performs three major tasks:

1. Local storage of process data and transmission to Wioniq IQ
2. Transfer remote user commands to the local process controller.
3. Send alarms to Wioniq IQ in real-time.

Applications

Remote monitoring various applications i.e. pump stations for sewage application or industrial applications.

Features and benefits

- Powerful single board ARM processor for fast data handling and communication.
- Integrated 4G modem for secure and reliable wireless data transmission within Europe (America version available)
- Built-in GPS position detection for tracking of non-stationary equipment
- Easy installation using 35 mm DIN rail mounting.
- Local HMI functionality for PLC control systems using a WEBscada terminal
- Internal Real-Time-Clock (RTC) ensures accurate time-stamping for alarms and process data.
- Ethernet port for Modbus TCP/ IP communication to PLC and/or frequency controlled (FO) drives
- RS232 communication ports for Modbus RTU communication

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Specifications

Soc

NXP i.MX6 based Solo SOM
Cortex A9 @ 1 GHz

System memory

512 MB DDR3

Supported frequency bands

Dual-Band
TDD-LTE B38/B40

Five-Band
FDD-LTE B1/B3/B7/B8/B20

Dual-Band
UMTS/HSDPA/HSPA+ B1/B8

Dual-Band
GSM/GPRS/EDGE900
/1800 MHz

Weight

Approximately 372 g

Max connectivity speeds

TDD-LTE/FDD-LTE
Uplink up to 50 Mbps
Downlink up to 100 Mbps

HSPA+
Uplink up to 5.76 Mbps
Downlink up to 42 Mbps

UMTS
Uplink
Downlink
up to 384 kbps

EDGE Class:
Max. 236.8 kbps (DL),
Max. 236.8 kbps (UL)

GPRS
Max. 85.6 kbps (DL),
Max. 85.6 kbps (UL)

CSD
GSM data rate
14.4 kbps
WCDMA data rate
57.6 kbps

External I/O

2 x 4G antenna connection
(Main + Diversity)

1 x GPS antenna

1 x 10/100/1000
Ethernet connection
(Limited to 470 Mbps)

1 x RS232 connection

1 x HDMI connection

2 x USB 2.0 connection

Real Time Clock (RTC)

Including onboard battery

Dimensions

Height:
120 mm (4.7")

Width:
56 mm (2.2")

Depth:
106 mm (4.2")

Supply voltage

10 to 30 V DC

Supply current

124 mA @ 24 V ~ 3 W

Temperature

Operating: -10 ... 70 °C

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