



# Bring the power of Machine Learning to the Industrial Edge

## EcoStruxure™ Autonomous Production Advisor – Gateway 101

### Overview

The Gateway 101 is a Dell OEM device that enables Edge Analytics and Machine Learning Model deployment close to industrial assets.

The device is fully managed by the EcoStruxure Autonomous Production Advisor (APA) Platform, where users can manage application deployment and hardware provisioning tasks to manage a fleet of Edge Gateways.

The Gateways come factory installed with the Ubuntu 18.04 LTS Operating System and pre-configured software environment that allows deployment of applications through the APA Platform.

### Features

- An open Intel Processor based platform that runs the Ubuntu 18.04 LTS Operating System
- Runs applications and machine learning models locally at the device level
- Has a small hardware platform footprint and low power consumption
- Mounts with DIN rails
- Operates in a wide temperature range -30° C to 70° C (-22° F to 158° F)

# Specifications

## Overview

Operating System	Ubuntu Server 18.04 LTS
Processor	Intel Atom Processor E3805, Cache: 1 MB L2 cache, Cores: 2
Memory	2GB DDR3L
Storage	eMMC 32GB

## Connections

Serial Ports	RS-232/RS-485/RS-422: 2 (Software Configurable)
Ethernet	100Mbps PoE: 1
WLAN or Bluetooth	1 RPSMA Connector
GPS antenna	1 RPSMA Connector
Broadband(3G)	1 RPSMA Connector
Broadband (4G LTE)	1 RPSMA Connector

## Power

Input Power	12-48 VDC
Max. Input Current	1.08 A at 12 V/0.23 A at 57 V
Power Requirement	<ul style="list-style-type: none"><li>• Max. Consumption: 12.9 W</li><li>• System Idle: 0.2 W (Operating system is active, but no applications are running)</li><li>• Processor Full Load: 8.1 W (Operating system active with 100% processor utilization and 2D/3D load)</li><li>• System Full Load: 12.9 W (Operating system active with 100% processor utilization and simultaneous access to I/O devices).</li></ul>
Recommended Power Supply	17 W (20% derating) with consideration of voltage derating under high environmental temperature.

## Temperature

Operating Temperature	<ul style="list-style-type: none"><li>• With 0.7 m/s airflow: -30° C to 75° (-22° F to 167° F)</li><li>• Without airflow: -30° C to 70° C (-22° F to 158° F)</li></ul>
Non-operational Temperature	With a maximum temperature gradation of 15° C (59° F) per hour: <ul style="list-style-type: none"><li>• With 0.7 m/s airflow: -30° C to 75° (-22° F to 167° F)</li><li>• Without airflow: -30° C to 70° C (-22° F to 158° F)</li></ul>

## General

Dimension	H: 125mm (4.92 in), W: 125mm (4.92 in), D: 51mm (2.0 in)
Weight	1 kg (2.20 lb)

## How to order

Select Gateway kits, accessories and spare parts if required

### Gateway kits\*

Part Number	Description
EAPA-HW-001-001	Gateway 101 No Cellular Modem
EAPA-HW-001-101	Gateway 101 Built-in Cellular Modem (US Verizon)
EAPA-HW-001-102	Gateway 101 Built-in Cellular Modem (US AT&T)
EAPA-HW-001-103	Gateway 101 Built-in Cellular Modem (NAM (without US)/EMEA/LATAM)
EAPA-HW-001-104	Gateway 101 Built-in Cellular Modem (APAC)

### Gateway Accessories

Part Number	Description
EAPA-SPR-001	Gateway 101 – Power Connector
EAPA-SPR-002	Gateway 101 – GPIO + Serial (x2) Connectors
EAPA-SPR-003	Gateway 101 – DIN Rail Mount
EAPA-SPR-004	Gateway 101 – CMOS Battery
EAPA-SPR-010	Gateway 101 – DIN RAIL Perpendicular Mount (EAPA-SPR-003 required)
EAPA-SPR-011	Gateway 101 – RS485/RS232 Serial Cable

### Antenna kit and spare parts

Part Number	Description
EAPA-ANT-001 **	Antenna LTE/4G Kit
EAPA-SPR-005	Antenna LTE/4G LMR 200 1 ft SMA Female Termination
EAPA-SPR-006	Antenna Mounting Bracket
EAPA-SPR-007	LMR 200 2 ft Jumper SMA Male to SMA Male Termination
EAPA-SPR-008	LMR 200 15 ft Cable SMA Female to SMA Male Termination
EAPA-SPR-009	Surge Arrestor

#### \*Each Gateway kit contains:

1	Gateway 101
2	3pin Power Connector
2	10pin Serial Connector
1	16pin GPIO Connector
1	DIN RAIL Mount
1	RS485/RS232 Serial Cable

#### \*\*Each Antenna kit contains:

1	Antenna LTE/4G LMR 200 1 ft SMA Female Termination
1	Antenna Mounting Bracket
1	LMR 200 2 ft Jumper SMA Male to SMA Male Termination
1	LMR 200 15 ft Cable SMA Female to SMA Male Termination
1	Surge Arrestor

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