



Art. no: 86296

e-Sense Organic G3 IOT Gateway

Gateway for connection to e-Sense Organic Portal. Incl. power adapter and wall bracket. Controls a maximum of 150 sensors.

The IOT Gateway supports existing devices connected to the e-Sense Organic mesh network with significantly increased connectivity range, multi-level security features, automatic security updates and can be powered either via a power supply or alternatively if supported by the infrastructure can be powered over the Ethernet (PoE).

TECHNICAL DATA

HOUSING DIMENSIONS	H: 30 mm x L: 127 mm
IoT GATEWAY WEIGHT	155 g
WALL/CEILING MOUNTING (OPTIONAL)	- Mounting backer plate - Mounting hardware 1. Drywall Anchor, #6-#8 Screw, 1-1/4" Length 2. M3 x 50 mm Length, Pan Head Philips #1, Machine Saw 3. Screw, Pan Head Philips Sheet Metal #6/18x1.25"
POWER SUPPLY	5 V, 2 A (10W) AC/DC Wall Adapter or PoE 802.3af
POWER CONSUMPTION	10 W (max)
CURRENT CONSUMPTION	Highly dependent upon the unit configuration and programmed software
PR PROTOCOL	Wireless Mesh
FREQUENCY BAND	2.402 to 2.480 GHz
MODULATIONS	GFSK at 1 Mbps data rates
TRANSMIT POWER	12 dBm
RECEIVER SENSITIVITY	-108 to -98 dBm, depending on modulation
COMPATIBLE SENSOR NODE	e-Sense Organic g3-sensor nodes
AMBIENT TEMPERATURE (ta)	0 °C ... 60 °C
MAX NUMBER OF NODES PER GATEWAY	150
MAX RANGE TO CLOSEST SENSOR NODE	5 m
ETHERNET	RJ45 10/100Mbps
ELECTRICAL SAFETY COMPLIANCE	EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 EMC COMPLIANCE EN 300 328 V 2.1.1 (2016-11) Draft EN 301 489-1 V2.2.0 (2017-03) Draft EN 301 489-17 V.3.2.0 (2017-03) ETSI EN 301 893 V 2.1.1 (2017-05) EN 62311:2008
COMPLIES WITH CE DIRECTIVES	EMC Directive 2014/30/EU Radio Equipment Directive 2014/53/EU RoHS2 Directive 2011/65/EU

NETWORK REQUIREMENTS

REMOTE HOST	PROTOCOL	PORT
ntp.ubuntu.com	UDP	123
geoip.ubuntu.com	TCP/HTTPS	443
login.ubuntu.com	TCP/HTTPS	443
api.snapcraft.io	TCP/HTTPS	443
dashboard.snapcraft.io	TCP/HTTPS	443
fastly.cdn.snapcraft.io	TCP/HTTPS	443
provision.rigado.com	TCP/HTTPS	443
api.rigado.com	TCP/HTTPS	443
a2fyopewinh1f.iot.us-west-2.amazonaws.com	TCP/HTTPS	8883
https://portal.organicresponse.com	TCP/HTTPS TCP/MQTT UDP	443 8883 123
http://a2bghq9neujukx.iot.ap-northeast1.amazonaws.com/	TCP/HTTPS TCP/MQTT UDP	443 8883 123

Refer to the following ports (inbound & outbound) with services accessing those ports;

If an IoT gateway is required to be installed on your site that has restricted access or firewall setup, you may need to contact network administrator before installation to allow gateways the appropriate access permissions.

GATEWAY PLACEMENT

The gateway is suitably placed as centrally as possible in the lighting installation.

If multiple gateways are required (> 150 nodes), these should be distributed proportionally for the best possible communication with two or more networks.