Datasheet

MPN: series-g-ip67-v1

Xeelas Series G IP67

Overview

This smart IoT node can be used to monitor various machines and assets. For example with the RS232 interface the node can communicate with embedded computers. Also the Series G has various sensor connection options like 0-10V, 4-20mA and serial UART.

The Series G is particularly suitable for monitoring assets that have a power supply available.

Specifications

Power	
Internal	2.4V 3900 mAh lithium batteries
Batterylife	3 months without external DC power (2 messages a day)
Mechanical	
Physical connections	1 x M8, female, 4pin, IP67 connector 1 x M8, female, 8 pin, IP67 connector
Sensor inputs	1 x Digital serial ±4V_{DC} 2 x Analog input (±5V_{DC}, ±10V_{DC}, ±24V_{DC}, 0-20 mA) 1 x Pull down input
Enclosure	IP67, Polycarbonate, coated PCB
Dimensions	120 x 75 x 55 mm
Weight	322 g
Technology	
Antennas[1]	2G, GNSS and 2.4 GHz external antennas needed
Antenna connector type	SMA, Female
Wireless	2G (GSM/GPRS), LTE-M (CATM1), NB-IoT, 2.4 GHz
Positioning	GNSS (Galileo, GPS, GLONASS, BeiDou)
SIM	Micro SIM or Embedded SIM (chip)
Environmental	
Installation	Indoor or outdoor
Operating temperature	-20 to 70 °C
Storage temperature	-20 to 70 °C
Operating humidity	10 - 95% non-condensing

[1] Antennas sold separately

I/O Connector pinout

Pin	Color	Signal	Characteristic
1	White	DC Input	Range 10-28V, max. 2A
2	Brown	GND	Connect to power ground
3	Green	Analog input #2	Range 0-28V (Fuel level)
4	Yellow	Pull-down input	Only pull to ground (Alarm)
5	Gray	Analog input #1	Range 0-28V (Running hours)
6	Pink/Purple	GND	Connect to ground RS232 device
7	Blue	RS232 RX	Connect to RX
8	Red	RS232 TX	Connect to TX
9	Black	Shield	Connect to earth ground

Pin	Cable Color	Conn. Color[1]	Signal	Characteristic
1	Brown	Brown	Power	4V power supply for sensor
2	Red	White	Serial TX	Connects to sensors RX
3	Orange	Blue	Ground	Connects to sensor ground
4	Yellow	Black	Serial RX	Connects to sensor TX

1. Conn. Color are the wire colors inside the node.

Dimensions