



## HarshPro™ Router

The HarshPro Router is a rugged, low power mesh network router that lets you set up reliable, self-healing mesh networks wherever you need. Designed to work in harsh environments, the HarshPro Router has an IP66 rating, extended operating temperature range, with a compact design that is easy to set up and deploy.

Utilizing RF mesh network protocol, the HarshPro Router is highly extensible and works with multiple 802.15.4 based protocols including but not limited to Zigbee, Bluetooth®, WirelessHART®, ISA 100, and Thread®. The HarshPro Router is low maintenance and can be updated remotely with Over-the-Air (OTA) firmware updates.

Developed and manufactured in Singapore, the HarshPro Router can be used in tandem with the hazardous-area rated HazPro™ Router, or with the HarshPro™ Gateway which provides a gateway for a complete mesh network solution.





## HarshPro Router Specifications<sup>1</sup>

Size:	113mm (L) x 80mm (W) x 90mm (H)
Weight:	350g
Cable Entry:	1 entry on the bottom, $\varnothing$ 3/4inch
Enclosure Flame Rating:	V-0 (UL)
Enclosure UV Rating:	F1 (UL)

### Environmental

Operating temperature:	-40°C to +80°C
Storage temperature:	-40°C to +80°C
Humidity:	5-95% RH (non-condensing)
Altitude:	Up to 15,000 ft
Ingress protection:	IP66

### Power

Options:	DC input (Fixed, battery or PV)
Input Voltage:	12V to 24V

<sup>1</sup> Specifications listed here may be subject to change



Input Current:	up to 25 mA
Power Consumption:	Approx. 140 mW

### Radio

Chipset:	Silicon Labs EFR32
Frequency:	2.4Ghz ISM
Transmit Power:	Up to 10 dBm
Link to Link Range:	Up to 90 meters (line of sight)
Protocol:	Zigbee, Bluetooth®, Thread®, or Proprietary
Encryption:	AES128
Firmware Over-the-Air Updates	Yes

### Antenna

Type:	External omni-directional
Gain:	2 dBi
Connector:	N type male
Dimension:	55mm (H) x 22mm (D)

### Power Cable

AWG:	20 to 16 (0.5mm <sup>2</sup> - 1.5mm <sup>2</sup> )
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### Regulatory<sup>2</sup>

Country Type Approvals:	CE, FCC, RoHS3, REACH
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### Mounting Options

Indoor/Outdoor	Wall mount Wall mount using wall/pole kit Pole mount Pole mount using wall/pole kit
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<sup>2</sup> Equipment pending certification