

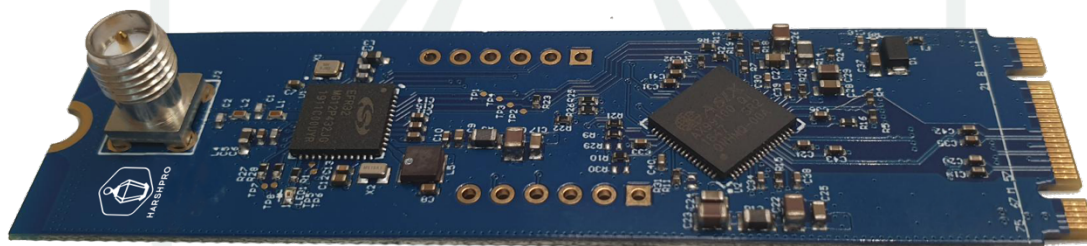


HARSHPRO™ M.2 RADIO

The HarshPro M.2 Radio is the smallest form factor PCI express card that enables wireless communications for low-bandwidth/power radio networks. It transforms off-the-shelf equipment into a high-performance IoT Gateway by enabling connectivity to your wireless IoT network, making it easy to connect to devices in your mesh network.

The HarshPro M.2 Radio is highly efficient and scalable. Utilizing RF mesh network protocol, the radio can support a large and/or dense network of devices with minimal interference and low energy consumption. The M.2 Radio hardware is also highly extensible, supporting multiple 802.15.4 based protocols including but not limited to Zigbee, Bluetooth®, WirelessHART®, ISA 100, and Thread®.

Developed and manufactured in Singapore, the HarshPro M.2 Radio is built to work where other devices fail, designed to work reliably in rugged conditions with an extended operating temperature range.



HARSHPRO M.2 RADIO SPECIFICATIONS¹

PCIe Card

| | |
|-------------------------|--------------|
| PCIe Bridge chipset: | Asix AX99100 |
| Form Factor: | M.2 2280 |
| Key Slot: | B+M |
| Key Slot Compatibility: | B, M, B+M |

Radio

¹ Specifications listed here may be subject to change



| | |
|--------------------|------------------------|
| Radio chipset: | Silicon Labs EFR32MG12 |
| Frequency: | 2.4 GHz ISM band |
| Tx Power: | Up to 16 dBm |
| Antenna: | External |
| RF Connector Type: | RP-SMA Female |

Power

| | |
|------------|------|
| Max Power: | 0.6W |
|------------|------|

Environment

| | |
|------------------------|---|
| Operating Temperature: | -40C to 85C |
| Humidity: | 10-90% non-condensing (operating and non-operating) |

Mechanical

| | |
|-------------|-----------------------|
| Dimensions: | 22 mm (W) x 80 mm (H) |
| Weight: | 200g |

| | |
|--|---|
| Supported Protocols: | Bluetooth® Thread® Zigbee Proprietary ² |
| OS Support: | CentOS v7.4 Red Hat® Enterprise Linux® (RHEL) v7.4/7.5/7.6 Red Hat® Enterprise Linux® (RHEL) Atomic v7.4 Linux kernel 4.x/3.x/2.6x Ubuntu v18.04 Windows Server 2016 Windows Server XP/Vista/7/10/8.x |
| Component Certifications³: | FCC, CE, ROHS3, REACH |

² Hardware can be used with proprietary 802.15.4 protocol stacks

³ Equipment pending certifications