

Vizmonet Unveils BlackPepper, an Innovative SWaP-C Optimized Radio Module

Redefining the Wi-Fi Radio Form-Factor to Meet Demands of on-the move Connectivity



11 bgn
2.4 GHz
900 MHz
2x2 MIMO
29 dBm



BlackPepper
BKP-N2N2-2409
Tiny **Wi-Fi** but **Spicy**

OEMs can leverage this platform to achieve robust connectivity in physically challenging environments for applications such as UGV (unmanned ground vehicles), UAV (unmanned aerial vehicle), AMR (autonomous mobile robots), Logistics automation systems and Industrial IOT

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Singapore, Singapore May 14, 2024 (IssueWire.com) - Vizmonet Pte Ltd is proud to announce the launch of **BlackPepper**, an OEM Wi-Fi module optimized for use in applications that require ubiquitous network connectivity on the move.

The **BlackPepper** is powered by Qualcomm industrial-grade enterprise network processors

QCA9550-AT4B and AR9592-AR1B and operates in both the 2.4GHz and 902-928MHz frequency bands.

With its Size, Weight, Power, and Cost (**SWaP-C**) optimization, this OEM module is capable of reaching speeds up to a theoretical maximum of 300 Mbps with its 2x2 MIMO, and IEEE 802.11 bgn capabilities.

BlackPepper is a revolutionary Radio module that reduces the total cost of ownership in creating powerful nodes with Wi-Fi capabilities.

The Small form factor (SFF) Wi-Fi OEM Radio module features engineering crafted with a keen emphasis on fulfilling the RF requirements of applications requiring connectivity in motion, while also providing resilience against shock and vibration.

Here are the fast facts of the OEM module:

- Dual independent Radio supporting the simultaneous operation of
- 2400 to 2483.5 MHz and 902 to 928 MHz, ISM bands
- On-board 10/100/1000 gigabit ethernet interface
- On-board USB 2.0 Host interface
- SPI Flash, 16MB
- NAND Flash, 256 MB
- DDR2, 200 MHz, 256 MB (64Mx16x2)
- IEEE 802.11 bgn, 2x2 MIMO
- Total TX Power of 29 dBm
- Best-in-class interference desensitization for mobile bands with
- Out-of-band rejection greater than 50 dBc.
- Resilience to MIL-STD-810G grade Shock & Vibration
- (L) 95 mm x (W) 69 mm x (D) 15 mm-40 deg C to +85 deg C operating temperature

OEMs can utilize this platform to establish robust connectivity in physically demanding environments, catering to applications like UGVs (unmanned ground vehicles), UAVs (unmanned aerial vehicles), AMRs (autonomous mobile robots), logistics automation systems, and Industrial IoT.

For information, please visit

[Embedded system: Frequency diversity at ease \(vizmonet.com\)](http://vizmonet.com)



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