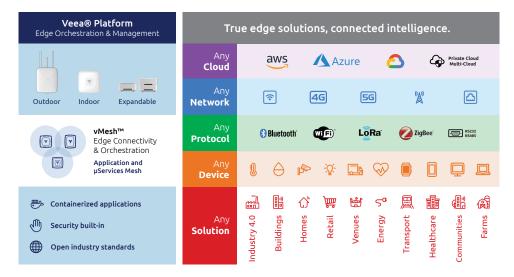
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Outdoor Smart Computing Hub with Integrated Wireless Access, Server-Class Processing and Mesh Scalability

The VeeaHub Pro VHH09 Smart Computing Hub offers enterprise- grade processing and a broad range of simultaneous connectivity options available in an integrated edge access/computation platform.

Designed to meet the needs of a broad array of smart edge applications in outdoor and industrial environments, the VHH09 integrates wireless connectivity, quad core compute resources, and enough storage to support low-latency, IoT and data-intensive edge applications with no-code AI— all secured by a chain of trust that starts with the hardware that will only run digitally signed software.

The VHH09 extends the connectivity and processing power of the Veea Edge Platform™ to outdoor and industrial use cases, resetting the bar in edge computing simplicity with a broad range of capabilities typically required for most use cases in one integrated unit with mesh networking and computing.



VeeaHub is a highly integrated connectivity and computation platform which integrates local mesh interconnect, wireless communication and compute capability into a single scalable unit.

Designed to be used either standalone or as part of a mesh network, the VeeaHub combines the functions of Wireless Routers, IoT Gateways, and local servers into a single cloud-managed unit Central to managing this sophisticated wireless network is the VeeaCloud; a cloud- based dashboard that provides multiple easy to view graphical user interfaces backed up by a powerful backend management tool.

¹Optional module/feature

² Veea holds unique IP on Secure Docker containers that provide for highly secure platform environment for sandboxed applications to run on VeeaHub.

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Product Highlights

- Tri-band Wi-Fi 5 Access Point
- IoT Gateway supporting Bluetooth (Classic and BLE), Zigbee, Thread/
 6LoWPAN, GNSS, LoRaWAN (optional) supported by 5GBASE-T and 4G LTE WAN
- Mesh router with advanced
 networking
- Linux server with 64-bit quad-core CPU and virtualized software environment for Secure Docker² containers, Software Defined Networking (SDN) and Network Function Virtualization
- Up to 2TB local Storage
- Veea Developer Portal with toolkit for application developers
- IoT Gateway Application toolkit with automation tools and templates
- Comprehensive multi-tenant cloud management
- Support for no-code AI workflows
- Fan-less; No special cooling required
- IP65 enclosure rating
- Operating temperature -40°C to 65°C

Intelligently Connected™



Compute	
Processing	Arm® ARMv8Quad-core @ 1.5GHz
Метогу	• 4 GB PCDDR4 (8 GB option available)
Internal Storage	• 32 GB eMMC flash
External Storage	• Up to 2TB via microSDXC™
Hardware Acceleration	Cryptography Engine

Networking	
Mesh	Wired or Wireless with vMesh® Technology
IP	• IPv4, IPv6, dual-stack
Security	 Stateful Firewall 802.1Q VLAN 802.1x VxLAN

Physical Interfaces	
Status LED(s)	• Status LEDs on the side panel
WAN / LAN Ports	 1x 10/100/1000 with PoE support (M12 Conn.) 1x 10/100/1000/2.5G/5G (M12 Connector)
PoE	• Supported on Ethernet Port 1 (802.3bt Type 3)
RS323/422/485	• 1x M12 5-pin connector
Other	microSDXC[™] SlotReset button

Physical Characteristics	
Environment	OutdoorsIP65 Rating
Colors	• White
Dimensions (L \times W \times H)	• 360mm x 295mm x 90mm
Weight	• 2.8 kg
Mounting Options	• Wall • Pole
Operating Temp.	• -40°C to 65°C

Power	
Power Supply	• 48 VDC @ 1.5A
Typical Consumption	• 60 W

Certifications and Compliance	
Electric Certifications	• FCC/CE/KC/SSRC/UL

Software	& Services

For more information, visit veea.com/resources	
Management & Monitoring	Veea Control CenterVeeaHub Manager
Cloud Services	• Veea Cloud
VeeaWare & Edge Applications	Containerized applicationsVeeaHub Developer Toolkit

Acceleration	
Wi-Fi®	
Standards	• Dual-band IEEE 802.11 a/b/n/ac
Radio Chains and Peak PHY Rates	 2.4GHz: 2x2:2 / 300 Mbps 5.2GHz: 4x4:4 / 1733 Mbps' (multiplexed)
Bandwidth	• 20, 40, 80 MHz
SSID Management	• 8 SSIDs, 4 per WiFi radio
Capacity	• 128 clients per radio
Security	 WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i SSID (AP Isolation) Dynamic PSK
Other Features	 Channel Selection (DFS/ACS) Device Roaming (802.11r) AP, Hotspot
RF Configuration	 2.4GHz: 2 internal antennas 5.2GHz: 4 internal antennas
Frequency Bands	 2.4 - 2.484 GHz (ISM) 5.17 - 5.25 GHz (U-NII-1) 5.25 - 5.33 GHz (U-NII-2) 5.49 - 5.73 GHz (U-NII-2e)

IoT Connectivity	
Bluetooth®	Bluetooth Classic 4.2Bluetooth 5.x (Bluetooth Low Energy)
Zigbee®	• Zigbee 3.0, Zigbee Pro
Thread®	• Supported

• 5.73 - 5.83 GHz (U-NII-3)

WWAN Connectivity	
	Optional with 4G module
4G / LTE Module	 CAT-4 GNSS uSIM tray behind access port

LoRaWAN Connectivity	
Available frequencies	• 900 MHz, 868 MHz, 470 MHz

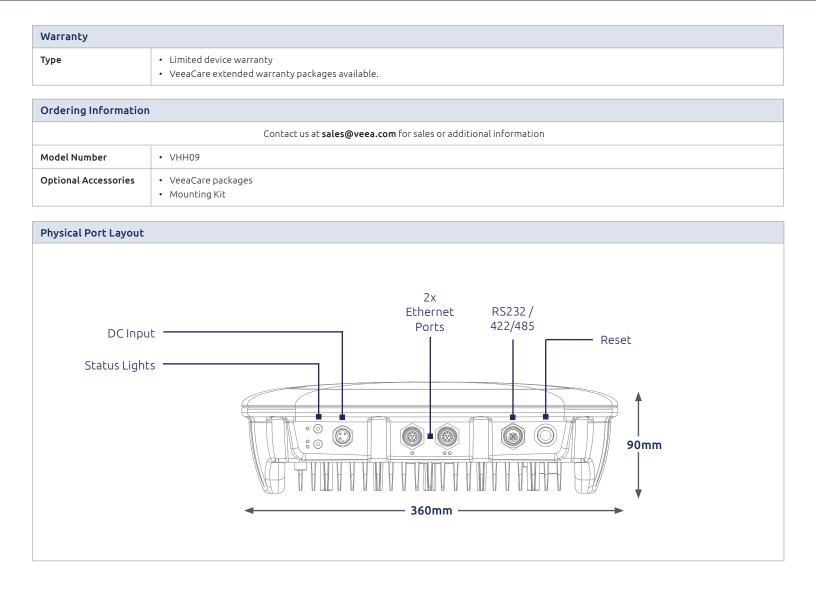
¹ Shared with vMesh at 5GHz

 ${\it Specifications\ subject\ to\ change\ without\ notice.\ Country-specific\ regulatory\ information\ is\ available\ upon\ request.}$

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VeeaHub® Pro Outdoor





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