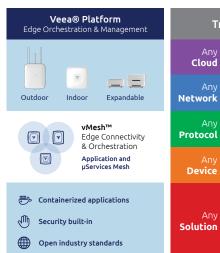


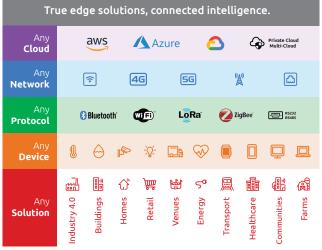
## Outdoor Smart Computing Hub with Integrated Wireless Access, Server-Class Processing and Mesh Scalability

The VeeaHub Pro VHH10 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 VHH10 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 VHH10 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.



## **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 or
   5G (Sub- 6 GHz) WAN
- Mesh router with advanced networking
- Linux server with 64-bit quad-core CPU and virtualized software environment for Secure Docker<sup>2</sup> 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

¹Optional module/feature

<sup>&</sup>lt;sup>2</sup>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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Compute	
Processing	Arm® ARMv8     Quad-core @ 1.5GHz
Memory	4 GB PCDDR4 (8 GB option available)
Internal Storage	• 32 GB eMMC flash
External Storage	Up to 2TB via microSDXC™
Hardware Acceleration	Cryptography Engine

Wi-Fi®	
Standards	Tri-band IEEE 802.11 a/b/g/n/ac
Radio Chains and Peak PHY Rates <sup>1</sup>	<ul> <li>2.4GHz: 2x2:2/300 Mbps</li> <li>5.1 - 5.3GHz: 4x4:4/1733 Mbps</li> <li>5.4 - 5.8GHz: 4x4:4/1733 Mbps</li> </ul>
Bandwidth	• 20, 40, 80 MHz
SSID Management	• 12 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	<ul> <li>2.4 - 2.484 GHz (ISM)</li> <li>5.17 - 5.25 GHz (U-NII-1)</li> <li>5.25 - 5.33 GHz (U-NII-2)</li> <li>5.49 - 5.73 GHz (U-NII-2e)</li> <li>5.73 - 5.83 GHz (U-NII-3)</li> </ul>

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

WWAN Connectivity	,
	Optional with 4G or 5G modules
5G Module	3GPP R.16 NSA/SA, Sub-6 GHz     GNSS     uSIM tray behind access port     Internal eSIM
4G / LTE Module	CAT-4 (Internal uSIM) CAT-6 - CAT-19 (Internal uSIM + Internal eSIM²) GNSS

 $<sup>^1</sup>$  With two independent radios, the 5GHz APs and vMesh can each support a maximum data rate of 1733 MHz.  $^2$  Only available with CAT-6 - CAT-19, 5G Models

Specifications subject to change without notice. Country-specific regulatory information is available upon request.

LoRaWAN Connectivity	
Optional module for base model or with 4G module	
Available frequencies	• 900 MHz, 868 MHz, 470 MHz

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	<ul> <li>1x 10/100/1000 with PoE support (M12 Conn.)</li> <li>1x 10/100/1000/2.5G/5G (M12 Connector)</li> </ul>
PoE	Supported on Ethernet Port 1 (802.3bt Type 3)
RS323/422/485	• 1x M12 5-pin connector
Other	<ul><li>microSDXC™ Slot</li><li>Reset button</li></ul>

Physical Characteristics	
Environment	Outdoors     IP65 Rating
Colors	• White
Dimensions (L x W x 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

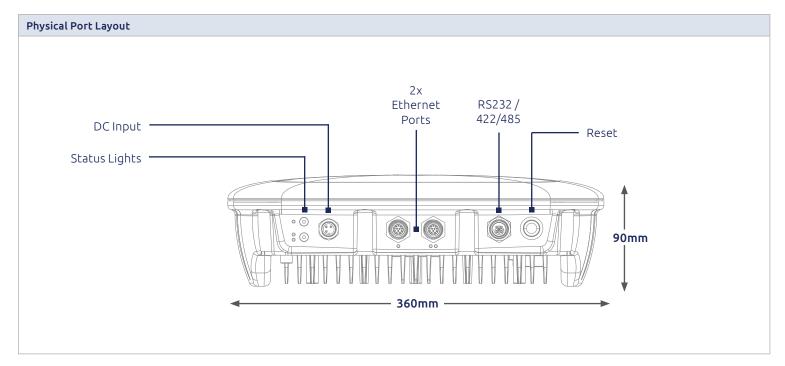
Certifications and Compliance	
Electric Certifications	• FCC/CE/KC/SSRC/UL

Software & Services	
For more	information, visit veea.com/resources
Management & Monitoring	Veea Control Center     VeeaHub Manager
Cloud Services	Veea Cloud
VeeaWare & Edge Applications	Containerized applications     VeeaHub Developer Toolkit



Warranty	
Туре	Limited device warranty     VeeaCare extended warranty packages available.

Ordering Information	
Contact us at sales@veea.com for sales or additional information	
Model Number	• VHH10
Optional Accessories	VeeaCare packages     Mounting Kit



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