

Yale Vision VAM Wi-Fi Specifications

GUIDE



Compliance & frequencies

The VAM Telemetry Module is compliant with **802.11b/g** and single stream **802.11n** standards. Channel widths of **20MHz** and **40MHz** are available with 802.11n, providing for data transfer rates of up to 150 Mbps.

The Telemetry Module operates at **2.4GHz**.

Authentication & encryption

The Yale VAM Telemetry Module capabilities:

WPA-PSK-TKIP	WPA2-PSK-TKIP
WPA-PSK-CCMP	WPA2-PSK-CCMP

There is **NO** support for web-based username and passwords to gain access to the Internet. Other Enterprise solutions are available but require additional support to setup.

Operation

NETWORK SETUP

DHCP is recommended to assign IP to the unit but not required. If static IP is needed, configuration settings can be used to set the IP, Subnet Mask, Gateway and DNS.

DNS is required. Host name is listener.yalevision.com and ota.yalevision.com

These endpoints support secure communication using TLS 1.2.

Firewall port requirements:

- Outbound communication must be permitted for all ports listed below
- DNS resolution is required
- TLS 1.2 must be allowed for secure MQTT communication
- Firewall access control must allow bidirectional communication with:
 - 3.134.195.27
 - 18.222.246.49
 - 18.189.84.84

UPDATES

UDP Port 5683 (CoAP)

REPORTS

TCP Port 8883
(MQTT over TLS 1.2)

Operation (continued)

CONNECTIONS

The Telemetry Module will attempt to join the network at truck Key On and will commence network disconnection at Truck Key Off. The Telemetry Module will remain on the network for the duration of the truck drive-session / operation-period, and may remain on the network for some time thereafter if the module is completing an update or reporting session. Telemetry Server Connections will generally transfer of the order of 5 kB per hour, with the majority being uploaded from the Telemetry Module. This figure can increase substantially if many events are logged. Firmware over-the-air updates can transfer in excess of 1MB.

NETWORK SECURITY

The Telemetry Module utilizes the following Internet protocols:

DHCP	DNS	TCP PORT 8883
UDP 5683	ICMP	HTTP, IGMP These Internet protocols are supported by the modem hardware but are NOT utilized by the Telemetry Module firmware.
IP The Telemetry Module supports IPv4 . The module hardware is capable of IPv6 support but existing infrastructure issues must be resolved before this can be enabled in the field.		

For questions about the Yale Vision portal, email us at telemetrysupport@yale.com or call us at (844) 984-1758

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