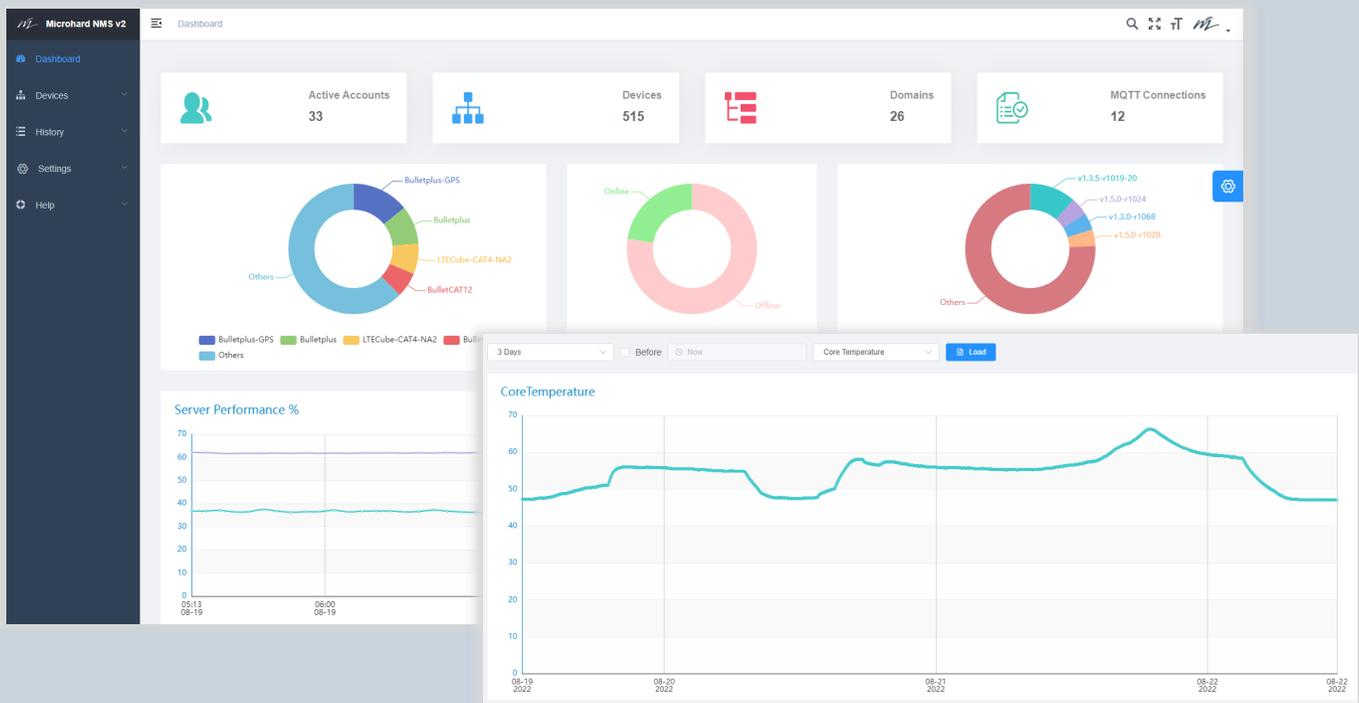


NMS 2 On Premise



Microhard NMS 2 is a powerful on premise server application that allows users to visually monitor, troubleshoot and perform centralized upgrade/configuration operations for Microhard Cellular Modems. Locations of the units in the network can be positioned on a detailed map interface with precise GPS coordinates. Using MQTT and/or UDP reporting network devices can be monitored in real time and managed to prevent, identify and resolve problems.



Features

- Detailed graphical representation of Microhard Cellular Devices
- On Premise (Self Hosted) Windows Server and Linux based software with multi-user capabilities
- MQTT & UDP device management
- Precise mapping capabilities via Lat/Long or automatic GPS coordinates
- Quickly identify offline devices
- Customizable Email Alerts
- Centralized wireless firmware upgrade and configuration capabilities
- Schedule and automate configuration and firmware changes
- Advanced event and action logging, task history
- View and export event logs
- Monitor Cellular & network traffic, RSSI/RSRQ etc, uptime of the entire network
- Backup/Restore device configurations

NMS 2 On Premise



Dashboard / Devices / Table View

1 Selected Devices

MQTT	Device Name	Domain	MAC Addr	IP Addr	Product	Software Ver.	IMEI	Carrier	SIM	Phone Number	Uptime	Status	Last Contacted
<input checked="" type="checkbox"/>	BulletCAT9-VZW-52	USA-Office	000F92069023	100.89.195.193	BulletCAT9	v1.5.0-r1044	863212031210310	Verizon	89148000004713612136	+17252216970	60.6:27:25	Online	2022-08-19 11:22:42
<input checked="" type="checkbox"/>	G5-CAT9-187	default	000F9206E213	184.71.46.126	BulletCAT9	v1.5.0-1029-23	863212031311829	N/A	N/A	0.0:1:24	0.0:0:0	Offline	2020-10-02 09:34:46
<input checked="" type="checkbox"/>	G5-CAT4-155	default	000F92069265	184.71.46.126	BulletCAT4-GL	v1.5.0-1029-23	867898040042320	N/A	N/A	N/A	26:23:25.5	Offline	2020-10-28 16:18:30
<input checked="" type="checkbox"/>	Bulletplus-NA2-IPP-VZW-36-204	USA-Office	000F92062DE5	100.114.110.255	Bulletplus-GPS	v1.3.0-r1080	866834040222759	Verizon	89148000004713612524	+17252216881	60.6:27:19	Online	2022-08-19 11:22:43
<input checked="" type="checkbox"/>	G5-CAT12-166	BoTest	000F9206929E	N/A	BulletCAT12	v1.5.0-r1043-2	869710030039741	N/A	N/A	N/A	81.19:22:27	Offline	2022-01-26 09:13:28
<input checked="" type="checkbox"/>	B-CAT12	max	000F9206E214	184.151.234.131	BulletCAT12	v1.5.0-r1025-16	869710030042414	Bell	89302610203065935088	15874358427	0.2:54:9	Offline	2020-03-10 14:06:16
<input checked="" type="checkbox"/>	G5-CAT12-167	BoTest	000F920692A0	N/A	BulletCAT12	v1.5.0-r1043-2	869710030042356	N/A	N/A	81.19:15:14	81.19:15:14	Offline	2022-01-28 09:13:34
<input checked="" type="checkbox"/>	G5-CAT9-186	BoTest	000F92068F73	184.71.46.126	BulletCAT9	v1.5.0-1029-23	863212031305334	N/A	N/A	N/A	0.0:1:23	Offline	2020-10-02 09:34:00

Dashboard / Devices / Device Details

Device General

Device Name	BulletCAT9-VZW-52	Domain Name	USA-Office
Description	myBulletCAT9	IP Address	100.89.195.193
MAC Address	000F92069023	Product Type	G5 - BulletCAT9
Software Version	v1.5.0-r1044	Hardware Version	1.0
Status	Online	Uptime	60 days 6 hours 30 minutes 26 seconds
Last Contacted	2022-08-19 11:25:44.0	Last MQTT Publish Time	2022-08-19 11:25:44.0
Last UDP Report Time	2022-08-12 17:22:09.0	Last Webclient Accessed	2022-08-19 09:55:28.0

Carrier

Last Updated	2022-08-19 11:25:44.0	APN	VZWINTERNET
Module Type	L850	Firmware Version	18500.5001.02.03.25.20(Built@Apr 4 2020:16:18:43)
IP Address	100.89.195.193	IMEI	863212031210310
DNS 1	198.224.172.135	IMSI	311480468867061
DNS 2	198.224.175.135	Sim Card Number	89148000004713612136
Activity Status	Connected	Sim Card Number 2	89148000004713612136
Phone Number	+17252216970	Home/Roaming	Home
RSSI (dBm)	-61	RSRQ (dB)	-7
Carrier Network	Verizon	Core Temperature (°C)	47.32
Cell Info (MCC/MNC/LAC)	311:480:5223	Supply Voltage (V)	12.18
Cell ID	5352206	Service Type	E-UTRAN

- The Dashboard provides a snap shot of the network health to quickly take stock of online and offline units.
- The detailed view device summary shows information such as the MAC and IP Addresses, Device Name, Carrier, SIM, Service & Radio Type, RSSI/RSRQ, etc.
- Quick link to specific device's WebUI Configuration.
- Powerful Filter to show only devices of interest.
- Map View allows robust mapping capabilities, with easy to view device status.
- Detailed device Information for Cellular Carrier, General/System info and interface data.

Dashboard / Devices / Map View

Search Options Match Value Search Save

UserDevice

Last Contacted: 2022-06-29 16:14:24
 Location: 51.141838, -114.05945 (Cellular)
 MAC Addr: 000F920C586B
 Status: Offline

Upgrade Task: 1 Device

Upgrade Type: System Firmware
 Firmware Option: Latest Version
 Upgrade Server: default
 Schedule Option: Now Specific Time Periodic
 Schedule Time: 2022-08-19 13:54:37
 Interval: 1 Week

Cancel Confirm

- Device Details provide general information about the device such as hardware & firmware versions, date/time last contacted, configuration details.
- Carrier details provides current APN, Connection Status, Roaming info, Cell ID, SIM Card Info, Temperature and Supply Voltage etc.
- Device local network settings and statistics
- Activity and log history of network events for specific interfaces such as Ethernet, Serial/USB interfaces, VPN status and statistics.
- Advanced logging capabilities, export Event Logs.
- Web Service for upgrades and configuration backup/restore.
- Customizable Email Alerts for events.



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