FM-DOME

Fluidmesh Live Tracking System for Long Range Mobility

The Fluidmesh FM-DOME harbors a very powerful antenna system to provide high bandwidth communication over vast distances. When normal wireless broadband communications breakdown, the FM-DOME System delivers an uninterrupted high-bandwidth wireless network with moving vehicles up to 100 MB/sec at 40 kilometers, with ample connectivity over 60 Km. The FM-DOME System requires minimal technical knowledge from its users to deploy broadband communications.

The FM-DOME is preconfigured to automatically locate, lock, and track communication to shore based radios for maximum uptime. The system's ultrafast time-saving features allow workers to focus on the bigger job at hand.

Advanced System Automation

One-touch antenna location and syncronization Dual axis motors realign for link acquisition

Seamless Installation

Two cables provide both motor control, and data connectivity

Rapid WWAN Provisioning

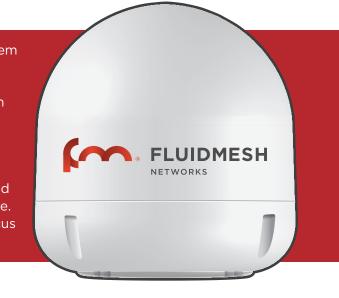
FM-DOME uses an industry-first wireless search algorithm that scans the horizon for a compatible signal. Once targeting has occurred, the system scans the wireless lobes to locate the center point, providing quick network links at the highest throughput possible.

Dynamic System Tracking & Stabilization

With GPS Lobe Optimization, the system routinely checks connection health to detect and immediately counteract any drops or weaknesses in the wireless signal caused by interference, environmental changes, or sudden platform movement. As platform movement occurs, as seen during a mobile deployment, the system will recalibrate and adjust its position in real-time to compensate for directional changes of the base platform in both axis, azimuth and elevation.

Enhanced Control Unit

Ruggedized and rack mount configurations SNMP Monitoring & Dynamic Service Level Validation WWAN link management with available Link Manager HTTPS/SSH/Telnet Management







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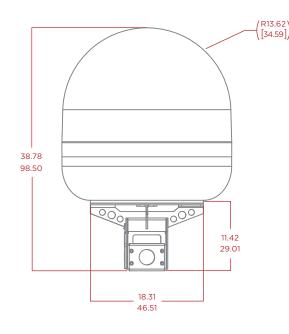
FM-DOME

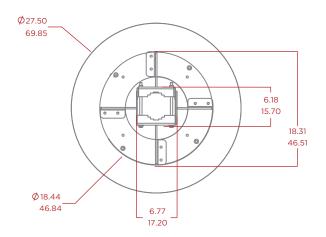
Fluidmesh Live Tracking System for Long Range Mobility

PRODUCT SPECIFICATIONS



FLUIDMESH





Specifications

DVM 30 - Domed Vehicle Mount (30 lb. Payload)

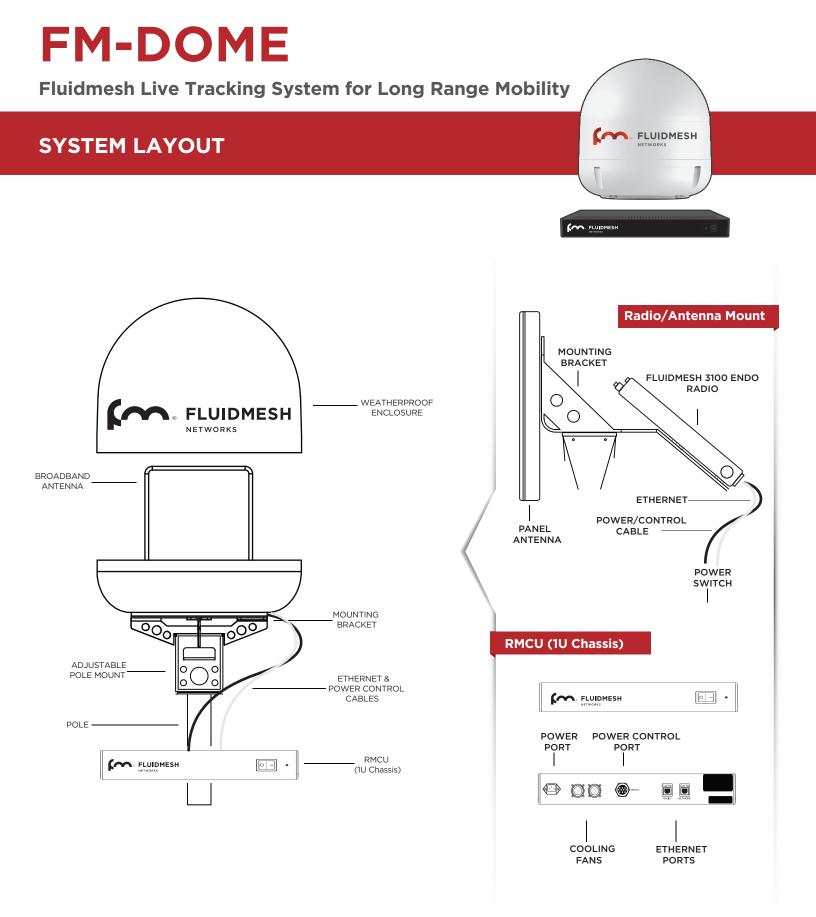
27.5" (Ø) x 38.78" (H)	
70 lbs	
Standardized to IP-66	
-30° or -40°C (w/heater) to 65°C	
360° Continuous / 180° (310°)	
0°-20°/sec (PAN) 0°-10°/sec (TILT)	
30 lb-ft (max)	
ntrol Unit - DVM 30	
1.75 inches (H) X 19 inches (W) X 13 inches (D)	
10 lbs	
0°C - 55° C (-40°C Option)	
AC: 90-265 VAC; 47-63 Hz DC: 10-36 VDC w/ Auto	
ETHERNET (10/100/1000 Mbps)	
Components & Accessories	
GPS-Based Signal Targeting & Stabilization	
Control Appliance for Active Link Failover	
PU Power Cables, Available up to 330 ft.	
Insulated Cat 5e Cabling, Available up to 330 ft.	
Universal Pole Mount Kits, Radio Mount Kits	
*Additional Components Required	

Environmental Testing

MIL-STD 810G, Method 501.5 MIL-STD 810G, Method 501.5 MIL-STD 810G, Method 501.5 MIL-STD 810G, Method 501.5 MIL-STD 167-1A, Type I CEI/IEC 60529: 2001 High Temperature Operating (+65C) Low Temperature Operating: (-30C, -40C) Humidity Salt, Fog Vibration - Shipboard IPx6 (Water Jet Spray), IP6x (Dust)



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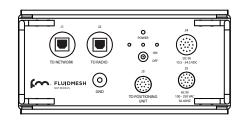
Fluidmesh Live Tracking System for Long Range Mobility

PRODUCT OVERVIEW and CONTROL UNITS

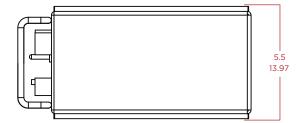
Rackmount Control Unit

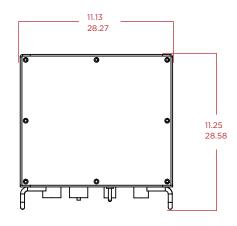
Hardened Control Unit

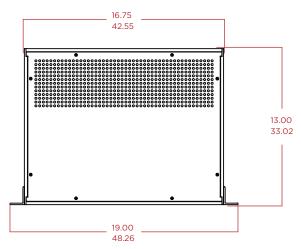














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