





FIXED MESH GATEWAY (FMG-3)

NEXT GENERATION WIRELESS MESH TECHNOLOGY, mist®

Whether operating across the United States or shipping around the world, RSAE Labs will ensure your valuable assets are safe and secure across the entire enterprise through continuous monitoring and near-real time reporting. Our Mesh Asset Tag (MAT) sensors constantly monitor the position, status and security of assets to provide logistics intelligence, intrusion detection, and situational awareness.

RSAE Labs Fixed Mesh Gateway (FMG-3) is the mist[®] mesh network's primary path to the Internet. It wirelessly communicates with our Mesh Asset Tags using RSAE Labs mesh protocol and forwards secure data from those tags through the Internet to the Device Management Center (DMC), where the data is decrypted and stored indefinitely.

RSAE Labs' FMG-3 is the mist* mesh network's fastest, lowest-cost path to the Internet. The FMG-3 contains a mesh radio and a hardwired 10/100 Ethernet connection to the Internet. These allow the FMG-3 to receive data from Mesh Asset Tags and forward it to the Device Management Center, giving the end-user visibility of the state of the Mesh Tags and the assets they monitor. The FMG-3 is designed for unattended operation; it requires only an Internet connection and power, both provided through its Ethernet cable.





Key Features and Benefits

- Provides RSAE Labs mist® mesh network authorization and security
- Portal for mist* mesh network configuration and management
- Bidirectional data interface between mist® mesh network and DMC
- Back haul via wired or wireless Internet
- Integration into management systems providing on-route and business process information

Ph	ysical		
	Dimensions	.200 x 140 x 43 mm	
		7.9" x 5.5" x 1.7"	
	Weight	.1.6 kg (55 oz)	
	Color	.White (RAL7035)	
	Connectors	.Ethernet: RJ45/IP67	
		Serial: RJ45/IP67	
		Antenna: Rev N Type	
En	vironmental		
	Temperature		
	Humidity	.100% @ 40 C	
	Vibration		
		6 G RMS all axis	
	Shock (survival)	.1 meter drop 6-sided	
	Ingress Protection Rating	IP67	
Me	sh Radio		
	Radio Standard	.802.15.4 Phy only	
	Transmit	.2402 MHz – 2480 MHz	
	Receive	.2402 MHz – 2480 MHz	
	EIRP (w/standard antenna)	10 mW	
	Sensitivity	98 dBm	
	Modulation	.DSSS	
	DSSS Chip Rate	.2 Mchips/sec	
	Data Rate	.250 kbps	
	Channels	.16	
	Channel Bandwidth	.3 MHz	
	Range		
	Device-Device	.200 m (90° to mount)	
	Device-Device		
	Device-Device	.20 m (long axis)	
Interfaces (Physical)			
	Ethernet	.RJ45 10/100Base-T	
	Serial Console	.Cisco console interface	

۸n	tenna
AII	Connector Reverse N-Type
	Type6 dBi center-fed dipole
	PolarizationVertical
Ī	Polatizationvertical
Ро	wer (External Only)
	Passive Power Over Ethernet (Not 802.3af)
	7-18 VDC at 700 mA max
Se	nsors
	Temperature, on-chip40 C - +85 C \pm 10
Ind	dicators
	LEDRed/Green
	Buzzer2.3 kHz
Fu	nctional
	RSAE Labs mist®
	mesh networkFull routing node
	4 network speeds
	Tag population1,000 to 10,000 tags
	EncryptionAES-128/CCM
	Data Storage4 Gbytes
	ReportingTimed, events, network
	topology changes
	PositionTimed or event driven
	UpgradeRemotely via Ethernet
	Operating SystemRed Hat Enterprise
	Linux v 5.3
Ce	rtifications

- FCC Part 15B and 15C ID: pending
- IC: pending
- IP-67/NEMA-4
- HERO (test complete/pending report)
- HERF (test complete/pending report)
- HERP (test complete/pending report)

Accessories

802.3af (POE) adapterUbiquiti Instant 802.3AF