

WIRELESS IP SOLUTIONS FOR BACKHAULING APPLICATIONS



FLUIDMESH

FLUIDMESH RESEARCH AND INNOVATION

Fluidmesh Networks has developed the broadest and most advanced technologies for the wireless networks. Our Research & Development engineers come from the top academic and industrial research institutions worldwide and are active authors in leading technical publications in the field of networking and wireless transmission. Every Fluidmesh product is embedded with this incredible amount of know-how and innovation, making Fluidmesh the wireless manufacturer of choice for many system integrators around the globe.

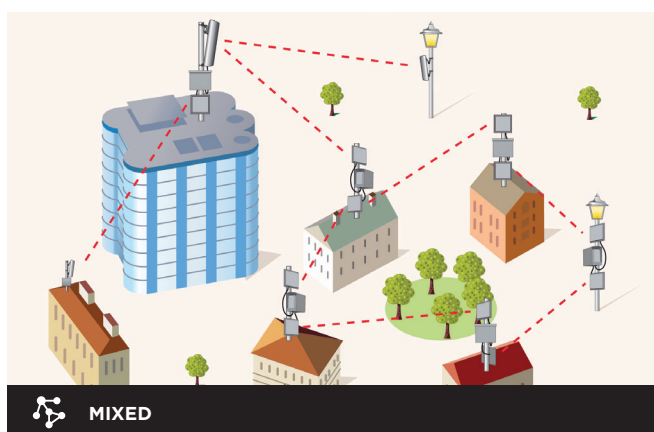
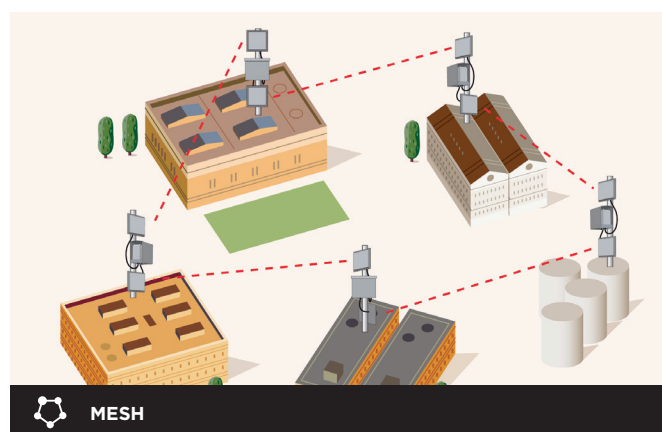
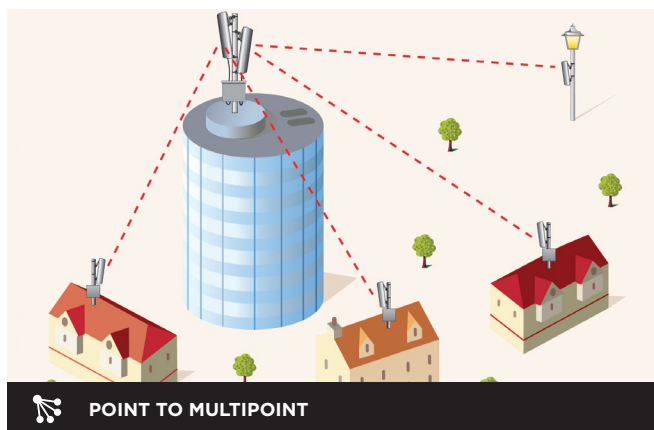
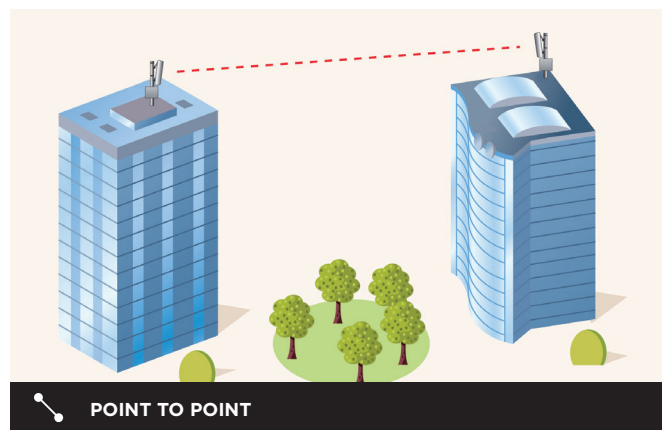
STATE OF THE ART SOFTWARE BASED RADIO TECHNOLOGY AND NETWORK ARCHITECTURES

Fluidmesh is the only wireless manufacturer capable of providing on the same hardware platform solutions ranging from the simple point-to-point wireless link, to the large city-wide mesh network, to the pervasive point-to-multipoint network and to the fast moving world of mobility.

This allows the user to build versatile networks without changing hardware, but, using different software configurations.

The user can easily choose Fluidmesh radios, regardless of the application, and then pick the software set-ups depending on the requirements of the network. This unique approach can lead to substantial cost savings in any architecture, from a single link to city-wide deployment, maximizing the return on investment for the end user.

Every Fluidmesh product can be used in any of the following network topologies:



FLUIDMESH QUALITY STANDARDS AND 2-YEAR INCLUDED WARRANTY

Fluidmesh Networks designs and manufactures its products according to the highest standards. We stand proudly behind all of our wireless products offering a two-year warranty with each radio. Fluidmesh also makes available to its customers extended and enhanced Warranty and Support plan that can extend the warranty period up to 5 years.



FLUIDMESH PROPRIETARY TECHNOLOGY AND INNOVATIONS

Over the past years, the Fluidmesh R&D Team has developed a unique set of proprietary technologies, protocols, algorithms, and management platforms that make Fluidmesh one of the leading wireless vendors in the market.



Reduce the cost of ownership select the amount of throughput you need

Limit the cost of ownership with FluidThrottle by selecting only the amount of throughput required. More throughput can be easily achieved by upgrading the system with software plug-ins when the traffic requirements increase. Thanks to the FluidThrottle technology, we are the most flexible and cost effective wireless solutions provider in the market.



Prodigy 2.0 Intelligent Wireless Transmission Protocol for mission-critical applications

Our MPLS-based transmission protocol is built to overcome the limits of standard wireless protocols and to deliver an infrastructure with a higher level of reliability. At the base of our innovative transmission protocol, there is a traffic optimization algorithm that allows every Fluidmesh radio to assign a specific level of priority and reliability to every packet transmitted. Prodigy 2.0 is our latest version that has been written from the ground up and represents a paradigm shift in the whole wireless mesh industry. In fact, the packets are no longer routed from a source to a destination using slow packet based routing algorithms, rather MPLS tunnels are pre-installed at the network bootstrap and packets are switched within the MPLS tunnels at an extremely fast speed. The result is a better, more reliable, multi service wireless infrastructure that can deliver up to 180 Mbps usable throughput with a 0.3 milliseconds handoff.



FLUIDMAX PROTECTS YOUR INVESTMENT

Your investment is safe when business needs change. Flexibility is a key factor in the successful deployment of a wireless solution. Fluidmesh products facilitate this task by being the only solution in the market supporting Point-to-Point, Point-to-Multipoint, Mesh, and Mixed architectures with the same hardware. This is achieved with FluidMax, patented technology that allows any of our wireless products to operate with a centralized medium access control protocol, or with a distributed medium access control depending on the network layout. That means that our units can operate in either CSMA or TDMA. The decision is made automatically by the network based on its layout and requires no user intervention.



UP TO 180 MBPS OF USABLE THROUGHPUT WITH VIRTUAL GIGABIT

The innovative FluidThrottle pricing allows throughput to scale as you grow by installing additional plugins. Virtual Gigabit allows you to continue growing all the way up to 180Mbps. By virtually bonding the Ethernet interfaces, real throughput above 100Mbps is just a click away.



BAZOOKA AGGREGATES MULTIPLE LINKS FOR HIGHER THROUGHPUT CAPACITY

With the new BAZOOKA plugin, you can now extend the Virtual Gigabit features across multiple point-to-point links that can be aggregated to form a single super high-speed link with a capacity of hundreds of Mbps. No special switch configuration is necessary.

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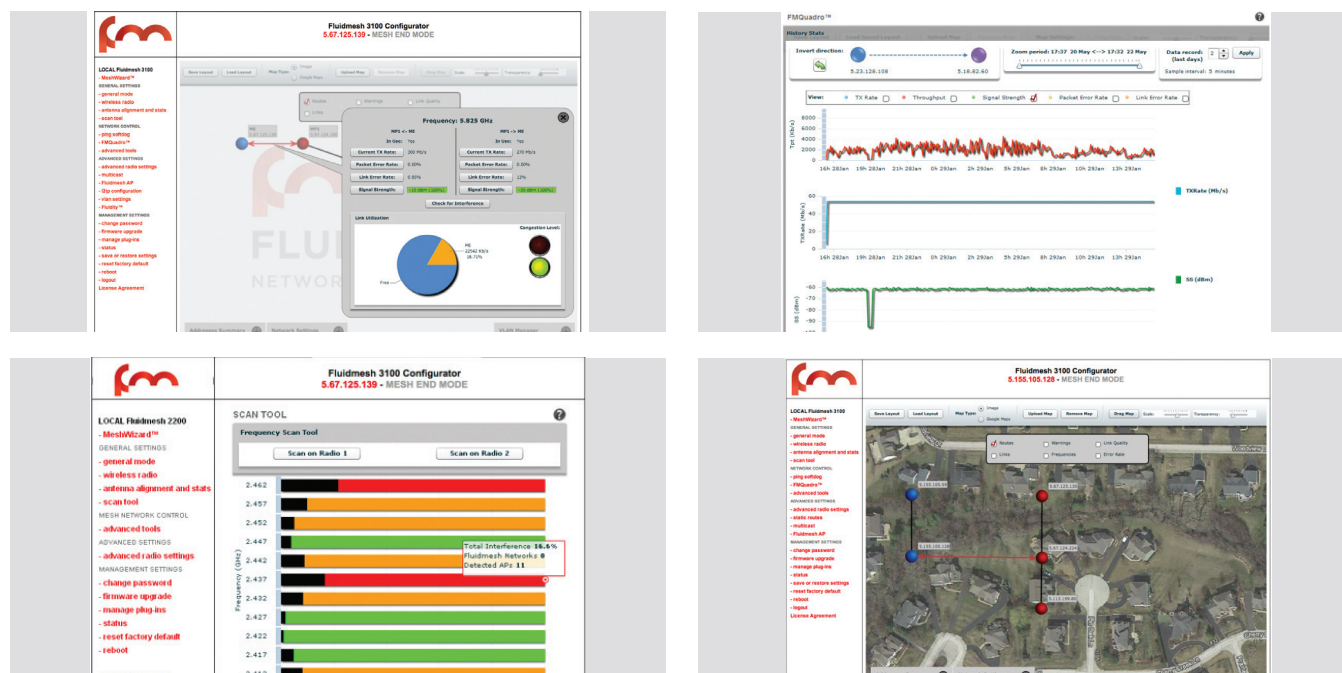
FMQuadro Web-Based Network Management Interface

You have probably seen many GUI to monitor and troubleshoot wireless networks. We are glad you did because we are pretty sure that you have never seen anything quite like this one. FMQuadro is included in all our products, it is completely web-based, and it provides an unparalleled level of information on your wireless infrastructure. It is a tool that can be easily used by expert wireless integrators as well as network novices to gain an in-depth understanding of the network.

FMQuadro provides a graphical network layout including Fluidmesh units, existing and redundant wireless links, and head-end location. For easy monitoring, it is also fully integrated with Google Maps, allowing you to upload an aerial map of your site. The system monitors key parameters such as frequency, signal strength, link error rate, packet error rate, and throughput and provides their real time value to the user in both a numerical and graphical format. Our interface is able to generate warning messages in case any of the parameters go outside of the optimal range. Being fully SNMP compatible, you can easily export those warnings to your main monitoring software for maximum control and easy integration.

Moreover, our web-interface is also capable of logging network parameters for up to a week so if something goes wrong, you can go back and understand how and when the problem came to life. This information is also available remotely thus reducing the time you have to be on-site.

To help avoid interference issues, FMQuadro also provides a built-in spectrum analyzer which is capable of detecting interferences on the 2.4 GHz band, as well as the 4.9 and 5.1-5.8 GHz. The results are provided in a graphical format which is easy to understand and can be easily exported for future references.



A SOLUTION FOR MANY WIRELESS APPLICATIONS

This unique set of features has given Fluidmesh a solid competitive advantage in many different wireless applications such as:

- Cellular Backhauling
- Wi-Max Backhauling
- Enterprise Backhauling
- Municipal and Rural Broadband
- Transportation and Railways
- Industrial Automation and SCADA
- Smart Grids
- Video-Surveillance
- Military and Government

FLUIDMESH KNOW-HOW AND GLOBAL TECH SUPPORT

Fluidmesh is committed to providing the most advanced wireless technologies for video and critical application as well as the know-how required to correctly design, configure, and deploy wireless networks.

Fluidmesh training and technical support spans the following four phases:



1. 100% Free network design support

Fluidmesh has a dedicated engineering team focused on designing systems for its worldwide customer base. The team can provide support in the design phase of any wireless network completely free of charge. This FLUIDMESH Free System Design service is available to any system integrator, end user, or consultant who is in the process of designing a wireless-base solution.

2. Online and Live Technical Training for Installers and System Integrators

Fluidmesh provides two forms of training:

Online, Level 1 and Level 2, Sales and Technical Training: The online training uses a Web-based, on-demand platform and allows the trainee to follow the entire training online using a regular web browser. Upon completion of all the training modules, an online quiz is given.

On-Site, Hands-On Level 3 Training Lab: The live training is equivalent of the online training and provides the same certification, but is designed for those who prefer to attend the training in a traditional classroom training. Fluidmesh offers live training every month at its offices in US and Europe, and also coordinates training in conjunction with its local partners and distributors.

3. Global Multi Language Unlimited Technical Support by Phone

Fluidmesh is able to provide technical support by phone all around the world in a timely fashion. Feel free to call any Fluidmesh office and an engineer will be able to assist you with the system configuration, setup, or troubleshooting of your network. Fluidmesh staff can provide technical support in English, Spanish, French, and Italian. Phone support on any Fluidmesh product is unlimited and free of charge for all our customers.

4. Commissioning and Technical Support Service On-Site

Fluidmesh also provides on-site assistance, technical support, and commissioning services. If you are interested in having a Fluidmesh Engineer on-site either to support the system installation or the commissioning of the wireless network, please feel free to contact your local Fluidmesh representative for a quote.

FLUIDMESH

ABOUT FLUIDMESH NETWORKS, LLC.

Fluidmesh Networks is the worldwide leader in wireless systems for security, industrial, and mission-critical applications. Its range of solutions covers point-to-point, point-to-multipoint, mesh and mobility networks with an unparalleled level of reliability, flexibility, and ease of use. The company is focused on the development of top-quality wireless products for security, video surveillance, condition monitoring and data communication in large areas at risk. Founded by a team of researchers and engineers from the Massachusetts Institute of Technology in Cambridge, MA and the Politecnico of Milan in Italy, Fluidmesh Networks serves its customers worldwide from its USA headquarters in Buffalo Grove, Illinois, and from its European office based in Milan, Italy.

**“In the new era, thought itself will
be transmitted by radio”**

Guglielmo Marconi



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