RISING CONNECTION

peplink



SD-WAN Networking Solutions for Mobility & Specialised Markets

Address new Demands with 5G ready Equipment

Public Safety

Guarantee Mission-Critical Wireless Connectivity by Combining FirstNet Ready & Commercial LTE with SpeedFusion™.

Transportation

Improve your customer satisfaction with Peplink SD-WAN. Gathers vehicle data and enhance the operating activities of your business.

Robotics / UAV

Enable New Applications that Used to be Impossible.

Maritime

Combine Multiple LTE, WiFi and VSAT for Video Streaming Onboard.

Media & Film Production

Get from Imagination to Production Faster with SpeedFusion Unbreakable VPN.

Broadcasting

Stream video at above-HD quality with SpeedFusion and WAN Smoothing.

Industrial Connectivity

Get ready for the Industry 4.0 deployments with Peplink SD-WAN and SpeedFusion!

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Public Safety

Unbreakable SD-WAN for Public Safety

When lives are at stake, real-time communication between emergency first responders and public safety units can hardly afford any interruption. Peplink's SpeedFusion technology combines multiple FirstNet and commercial LTE connections to enable 100% reliable and stutter-free connectivity, even in large events with overloaded wireless networks.

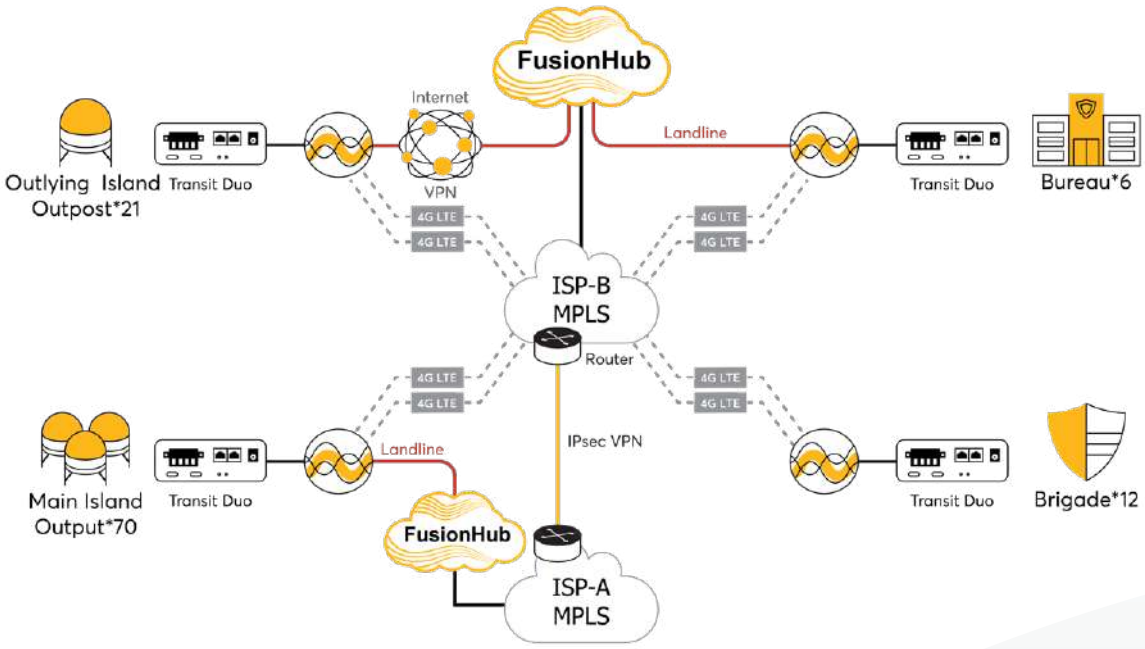
Challenges

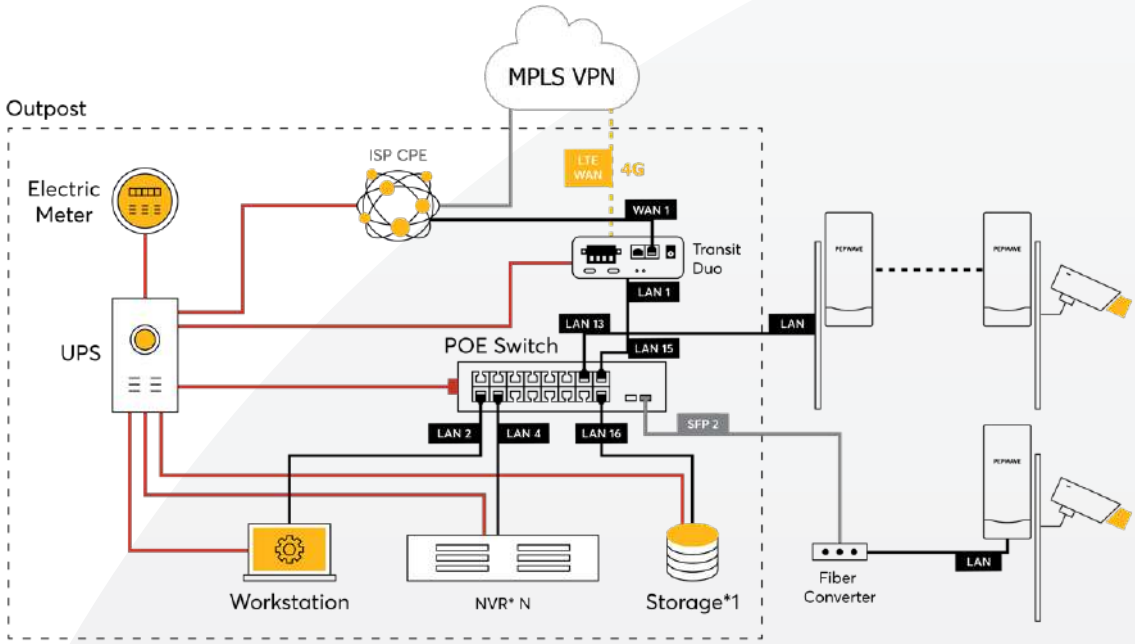
In large events, wireless networks congestions can lead to packet losses and disrupted communications

Even with the best technology and investment, cellular dead zones are inevitable

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The Big Picture





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Featured Products

FusionHub

- FusionHub virtual appliance enables private hosting of SpeedFusion in cloud servers
- Runs on all mainstream VM software such as AWS, Microsoft Hyper-V, VMWare



MAX Transit Duo

- SD-WAN edge router designed in a compact form factor with high endurance
- Dual cellular for multiple cellular carriers with SpeedFusion hot failover and bonding capabilities
- FirstNet Ready



MBX HD4

- High performance SD-WAN edge router designed to handle high amount of data traffic in a command center
- Quad cellular for multiple carriers
- FirstNet, UK Emergency Service Network Ready



MBX HD2

- SD-WAN edge router with 4 ethernet ports to reduce clutter and equipment onboard
- Dual cellular for multiple cellular carriers with SpeedFusion bonding and smoothing capabilities for stutter-free streaming and communications
- FirstNet Ready



InControl 2 Virtual Appliance

Cloud-Based SD-WAN Network Management Platform

InControl2 Virtual Appliance (ICVA) can be hosted on any private server hardware, giving network administrators complete management and control over sensitive data and security. ICVA also supports REST API, enabling easy integration with your existing systems.

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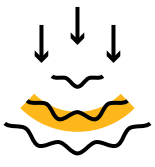
Transportation

Comprehensive Transportation Connectivity Solution

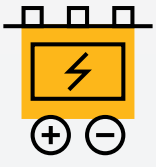
Transportation deployments face a number of challenges. Spotty network coverage produces cellular dead spots throughout the trip. Even when connectivity is available, there may not be enough throughput for bandwidth-intensive tasks such as streaming or video conferencing. SpeedFusion SD-WAN solves this problem by combining the bandwidth of multiple connections.

In addition, Routers, access points, and cameras all need a reliable supply of power to operate. The SD Power Management Unit (SD-PMU) and the upcoming BR1 Power regulates and manages power directly from the vehicle, while the rugged SD-Switches deliver 802.3at PoE to cameras, access points, and Ip Phones. To pull our ecosystem together, we have InControl cloud management. From any web browser, users could manage all the aforementioned devices as well as track the location of any vehicle equipped with a GPS-enabled Peplink router.

Provide unbreakable connectivity and video surveillance for each train cabin



Cellular reception variedthroughout the length of the train.



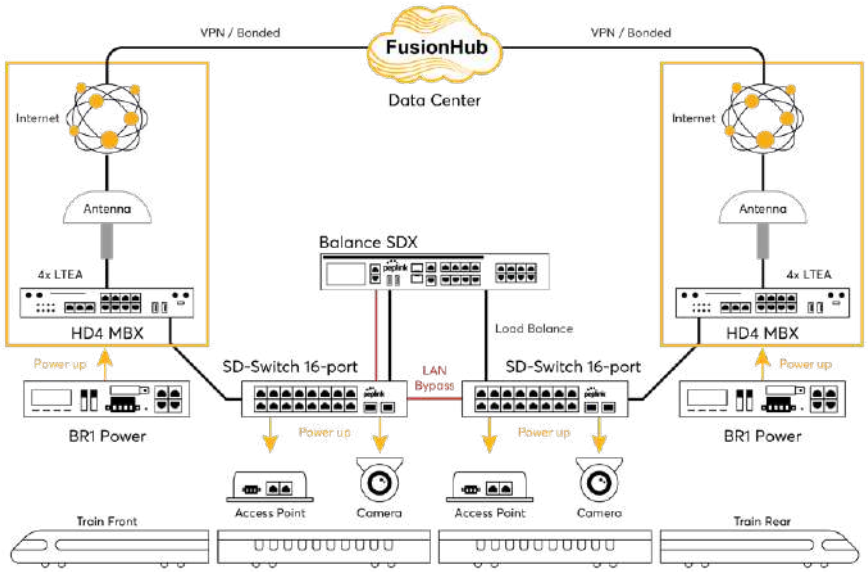
Access Points and Cameras needed to be connected and powered from batteries located at the first and last carriage.



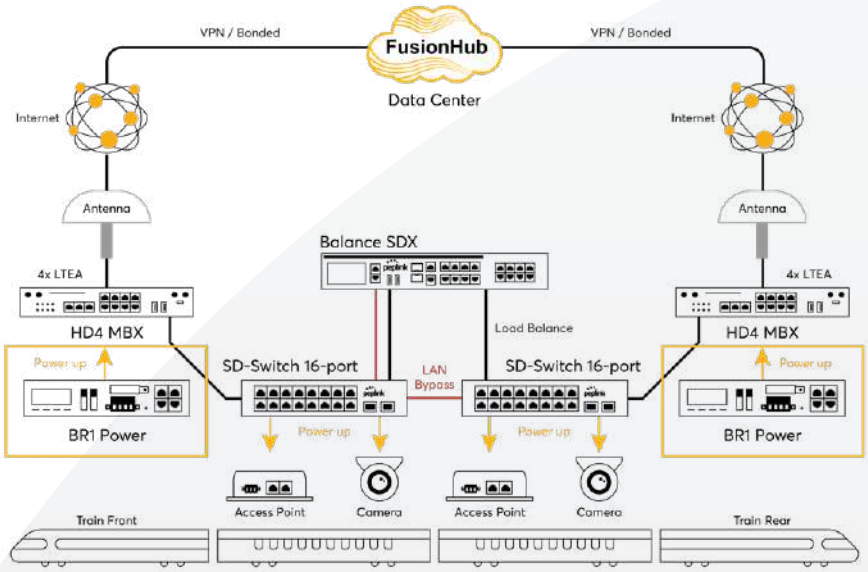
Only 1 Ethernet cable can travel between each train carriage.

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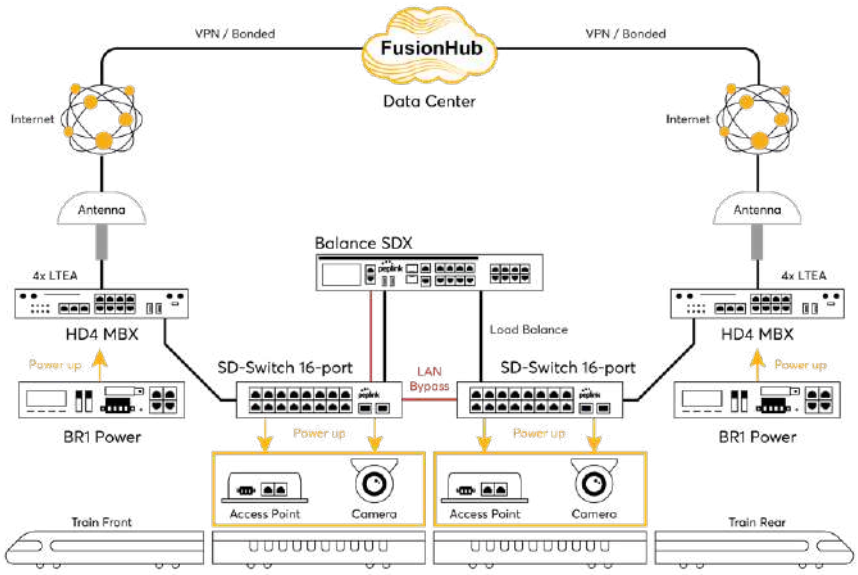
The Big Picture



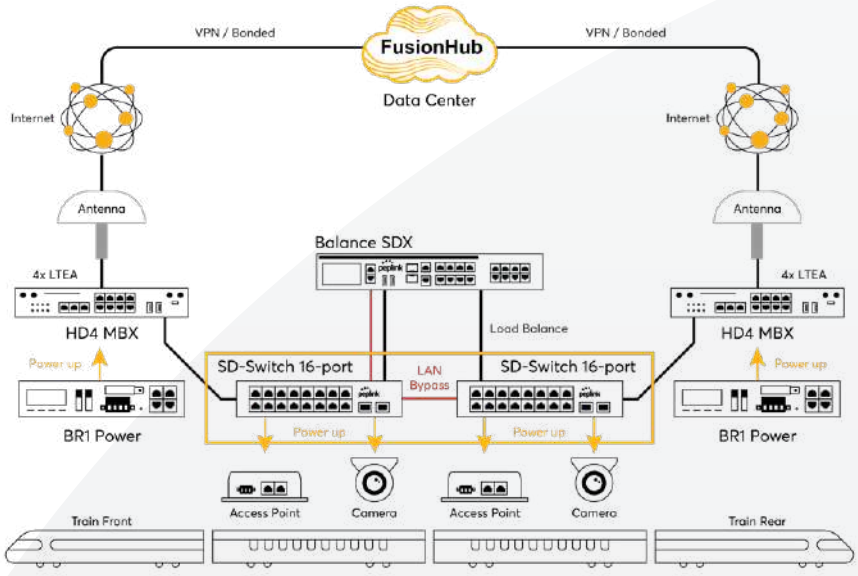
1 HD4 MBX are installed at each end of the train for redundancy and improved connectivity, each of them connected to the data center with 4x Gigabit LTE links.



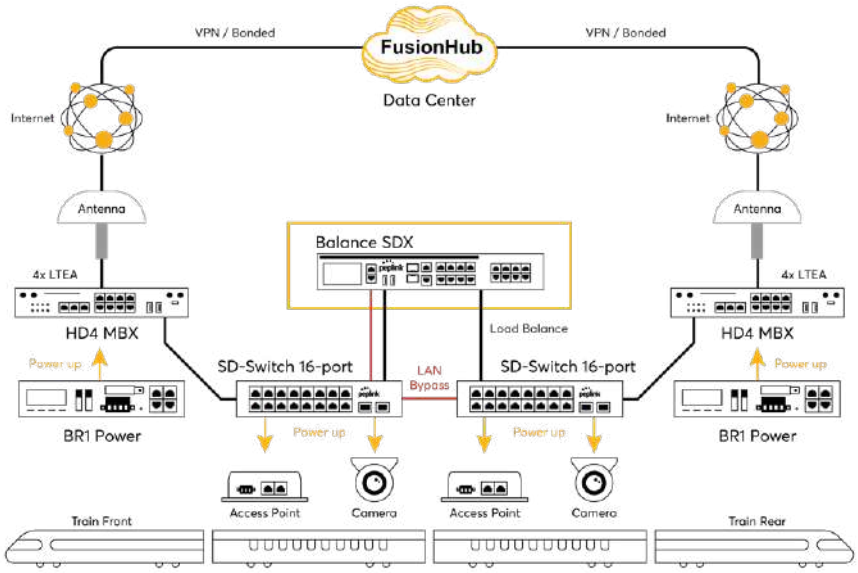
2 The BR1 Power delivers regulated voltage. Power delivery and battery status reports are available on the IoT Cloud. Capable of Out-Of-Band Management.



3 In each carriage, devices are connected and powered by a 16-port SD-switch. Power consumption and uptime status are available on the IoT Cloud.



4 The 16-Port SD-Switches are all connected together in a series. If any carriage loses power, LAN bypass ensures that the other carriages remain unaffected.



5 Finally, the Balance 1350 is placed within the deployment to manage and control the bandwidth allocation between the 2x HD4 MBX located at each end.

Featured Products





MAX BR1 Power (Coming Soon)

- Converts fluctuating voltage from vehicles into reliable 52V for powering devices.
- Integrated cellular enables Internet connectivity, and out-of-band management.

MAX HD4 MBX

- Cellular router, combines bandwidth of up to 4 cellular providers.
- Removable cellular module, upgrade to 5G and other future technologies when needed.

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SD Switch 16-Port Rugged

- SD-WAN edge router designed for Mobility/Transportation
- Compact size with high endurance
- Supports 2 active SIMs at same time



Balance SDX

- Bandwidth Bonding router for wired deployments of all scales.
- Manages each connection, redistributing traffic to "healthy" WAN connections.
- Equipped with load balancing algorithms.



Puma 401

- Precision assembled by machine
- Built with high-quality cabling
- Wide range to address different needs



AP One Rugged

- Provides Wi-Fi Connectivity
- Can be centrally managed via InControl 2
- Indoor and Outdoor form factors available



M12 Series

- M12 Connections for Ethernet Ports and Power
- Twist-on connectors, stays on even when subject to shock and vibration
- Two available Peplink models in the M12 series: MAX Transit | AP One Rugged
- Fanless design, industrial temperature range.

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InControl 2

Cloud-Based Network Management Platform

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Robotics & Unmanned Vehicles

Enabling New Possibilities

Peplink's SpeedFusion means devices can fully cut the cord and still enjoy fast and unbreakable connectivity. With this, customers can infuse connectivity to any device and enable new applications that used to be impossible.

What are your Challenges in Robotics & Unmanned Vehicles Connectivity?

Not One Second of Downtime Allowed

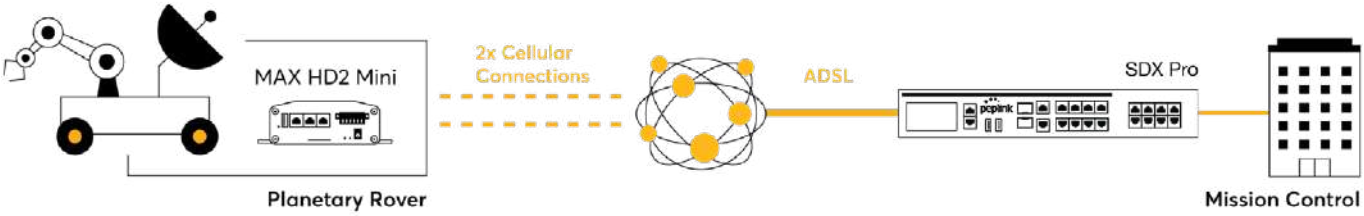
In some unmanned systems, even one second of downtime can lead to disastrous results. Uptime must be 100%.

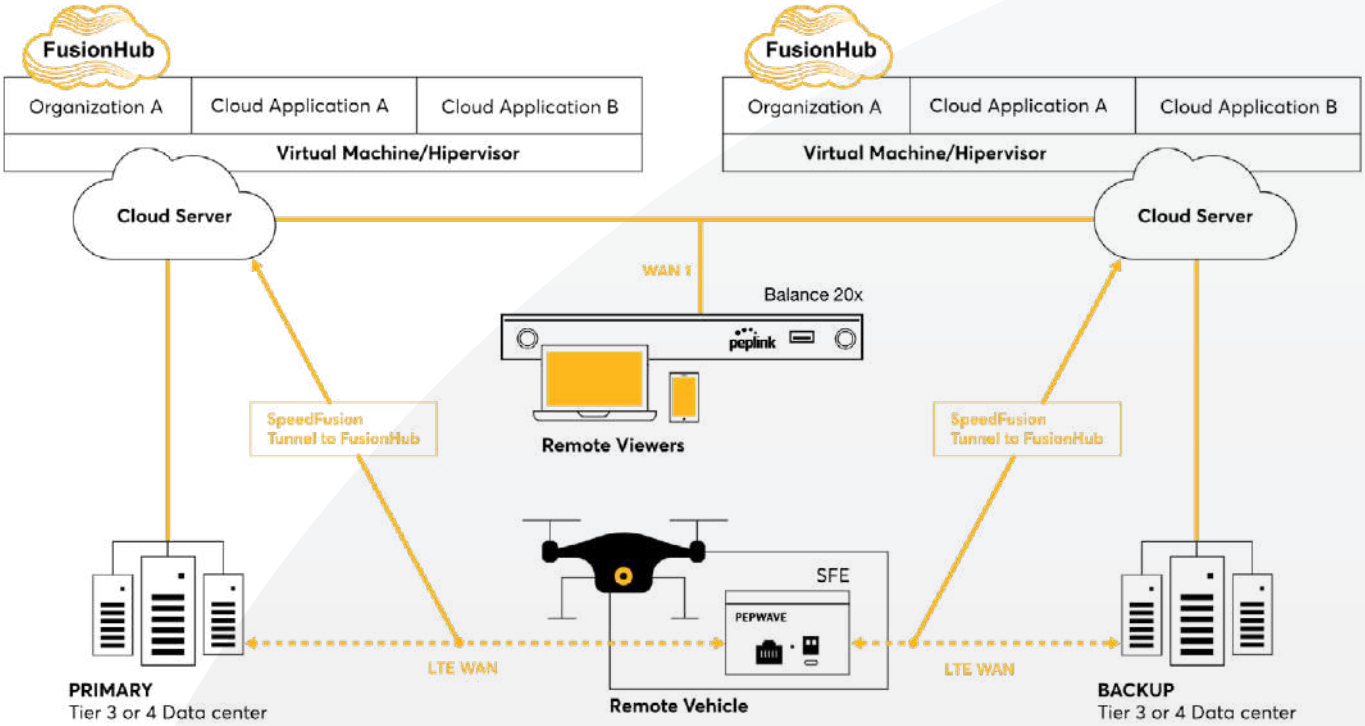
Form Factor Restrictions

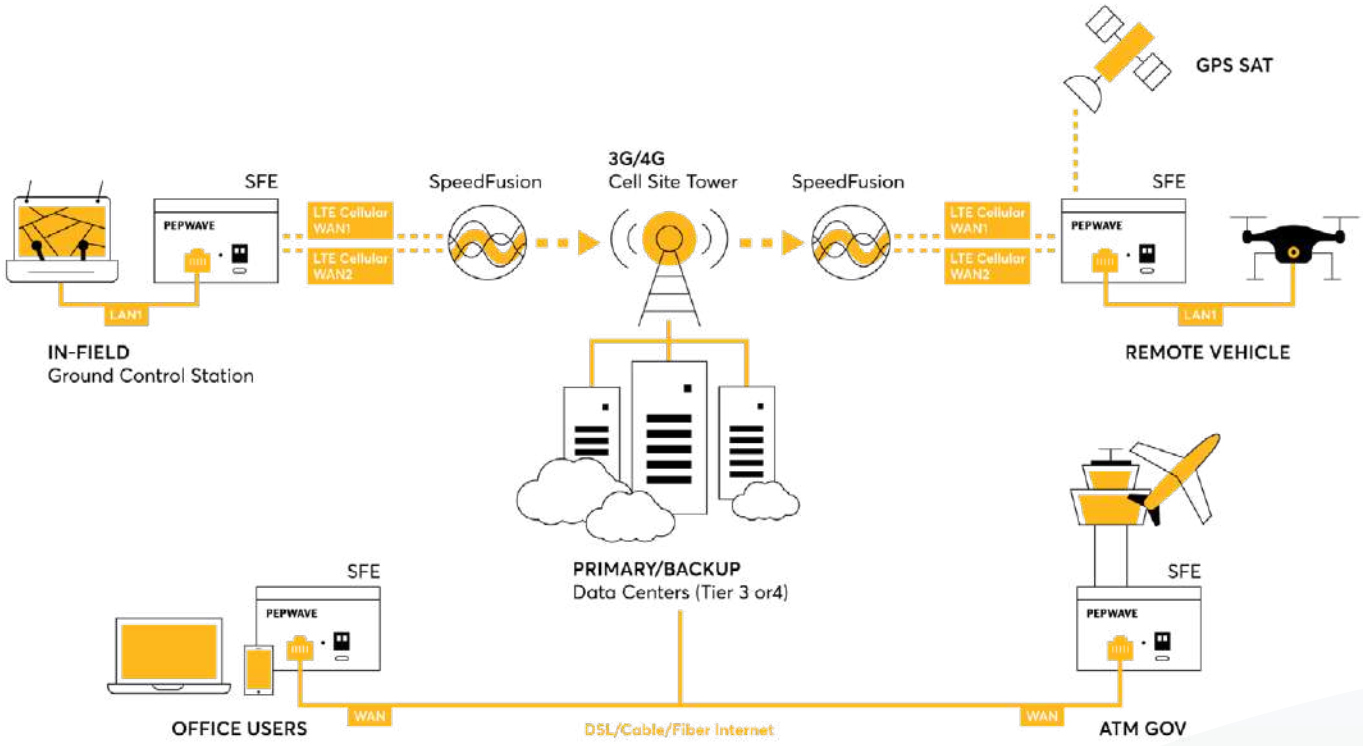
System builders often have very limited power budgets that precludes many connectivity solutions. Moreover, physical dimension and weight allowance are also important considerations.

The Big Picture









Featured Products





SDX Pro

- Deployed at mission control
- Bonded connections with multiple WAN keeps the network running at 100% uptime
- Peplink VPN keeps unmanned device and mission control on the same secure local network

MBX HD2

- Deployed on the rover
- Peplink VPN keeps unmanned device and mission control on the same secure local network, which eased software configuration complexity
- Input power (Terminal Block) simplifies installation on the unmanned system

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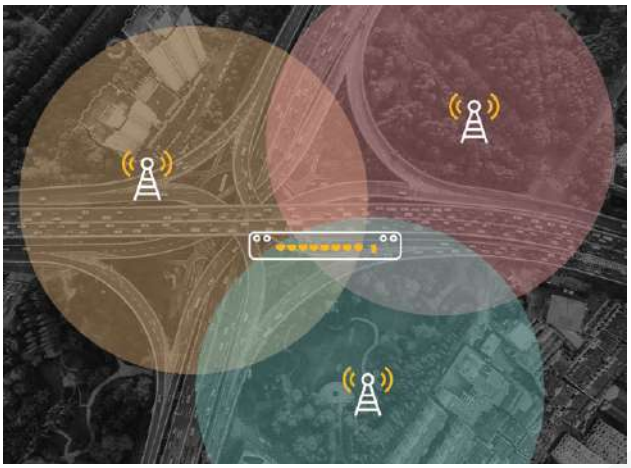


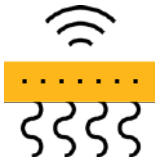
Balance 20x

- Receives live video stream from drone
- Built-in L2TP server that allows up to three simultaneous VPN connections

SpeedFusion Engine

- Deployed on the drone
- Provides uninterrupted connectivity for live video streaming over SpeedFusion while drone is moving
- Form factor optimised for small unmanned systems





SpeedFusion™ Bandwidth Bonding

Turns Your Multiple Connections Into a Single Bonded Connection

With MAX cellular routers, you can stream video and quickly transfer large files in remote areas with poor connectivity. SpeedFusion technology makes this possible by bonding the bandwidth of multiple cellular services. In addition to 3G/4G LTE connections, you can also add VSAT and land lines into your SpeedFusion tunnel.

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Unbreakable Maritime Connectivity

Combine Multiple LTE, WiFi and VSAT for Reliable and Fast Onboard Connectivity.

Reliable Internet connectivity can provide enhanced enjoyment onboard and increased navigational capabilities (nautical charts, weather reports – or the location of the nearest marina), additional entertainment for the guests and crew (IP Radio/TV, news, social media) as well as secure corporate communications (VoIP, email and messaging). However getting reliable internet connectivity at sea has a number of specific challenges particular to this difficult and ever-changing environment.

What are your Challenges in Maritime Connectivity?

Fluctuating Network Availability

Network availability and speed of links vary based on the vessel's location. Peplink combines any connection to ensure connectivity is always available.

Bandwidth Need for Shipboard Resources

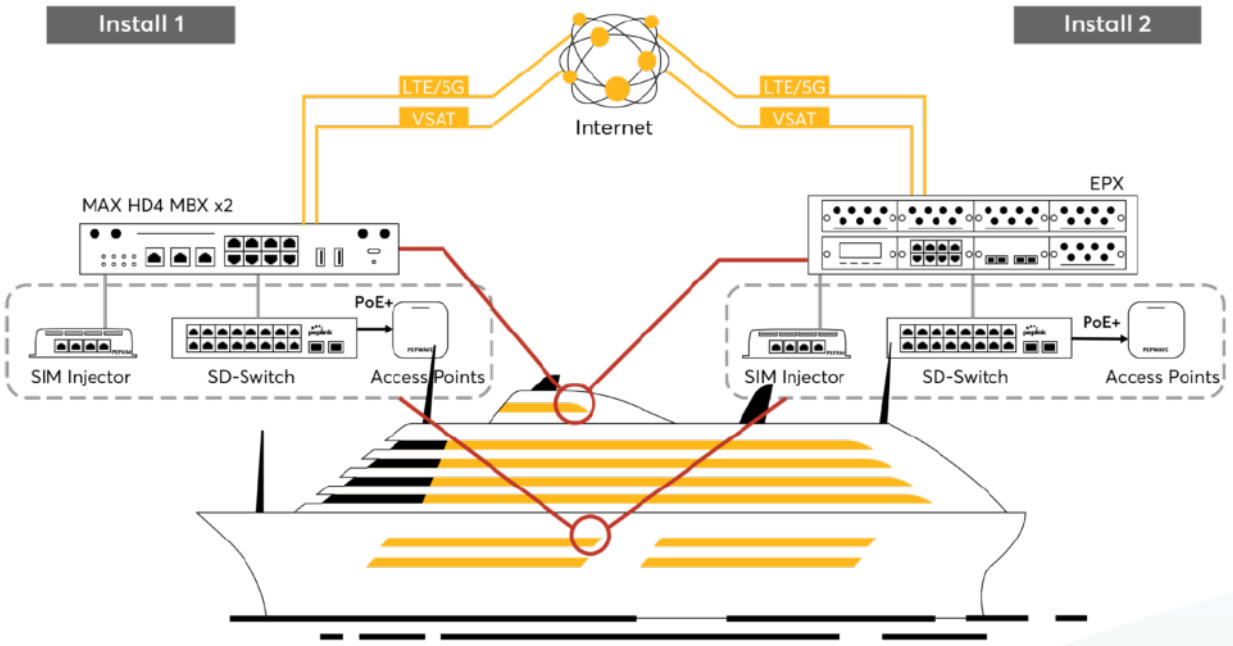
Incumbent satellite solutions can no longer accommodate the rising bandwidth requirements for streaming IPTV, email, access to company servers and external cloud and CCTV footages.

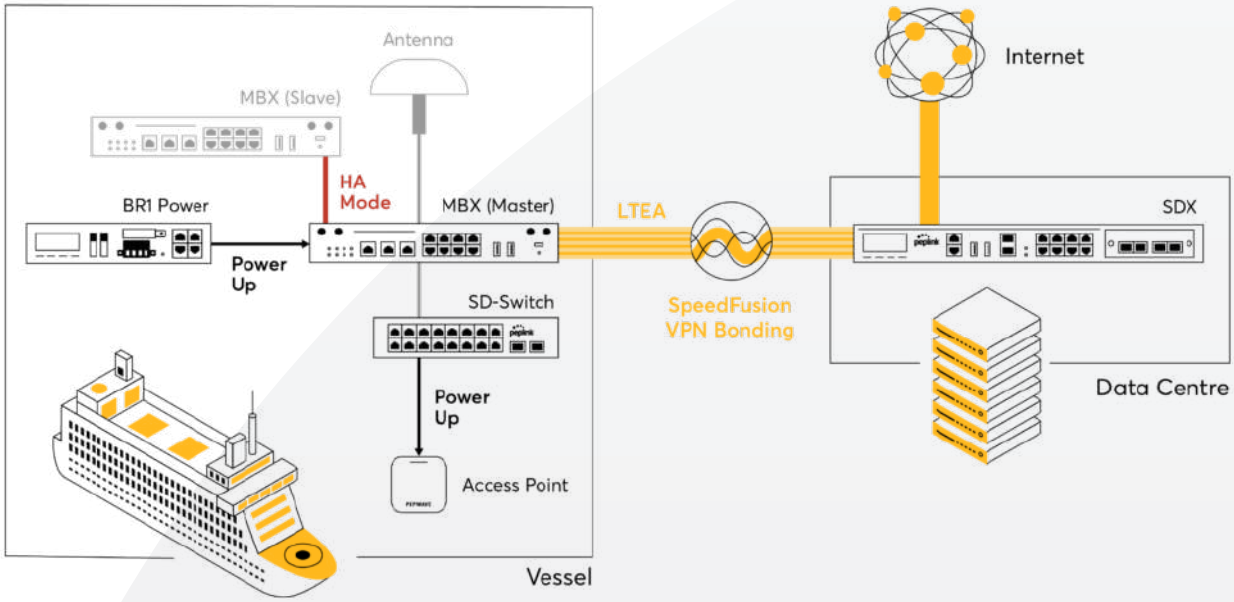
Connection Cost Control

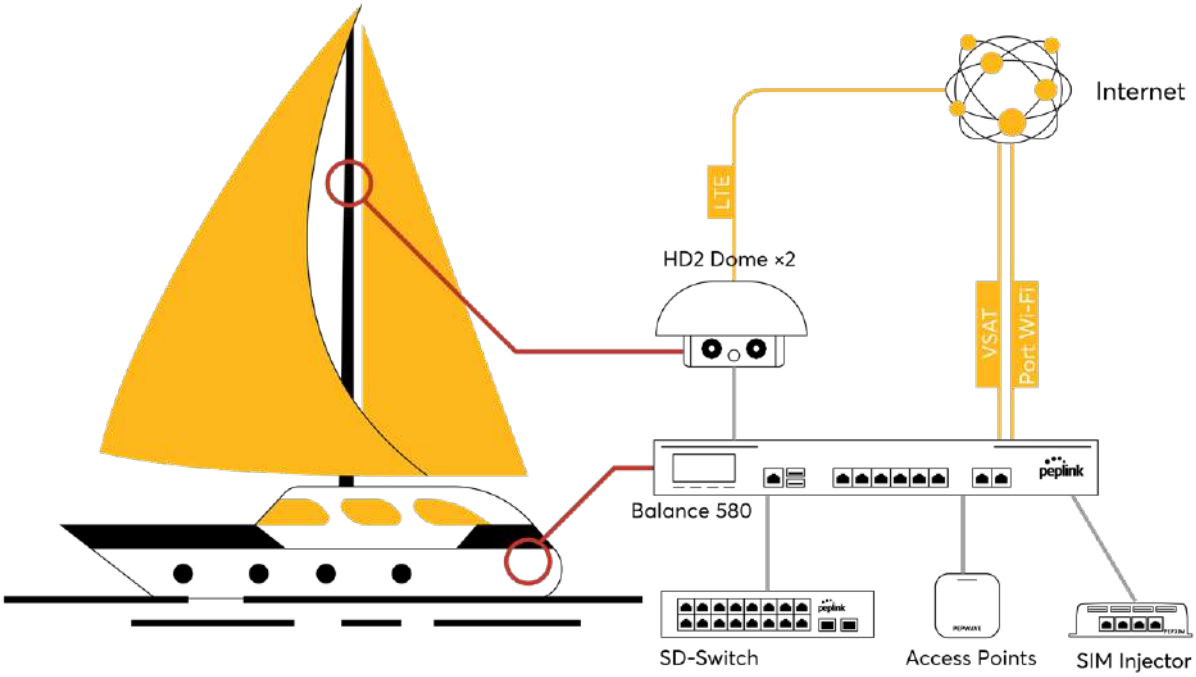
To avoid data cost from spiraling out of control, Peplink can automatically prioritise data usage to lower cost connections, such as port WiFi over LTE, or local LTE over satellite.

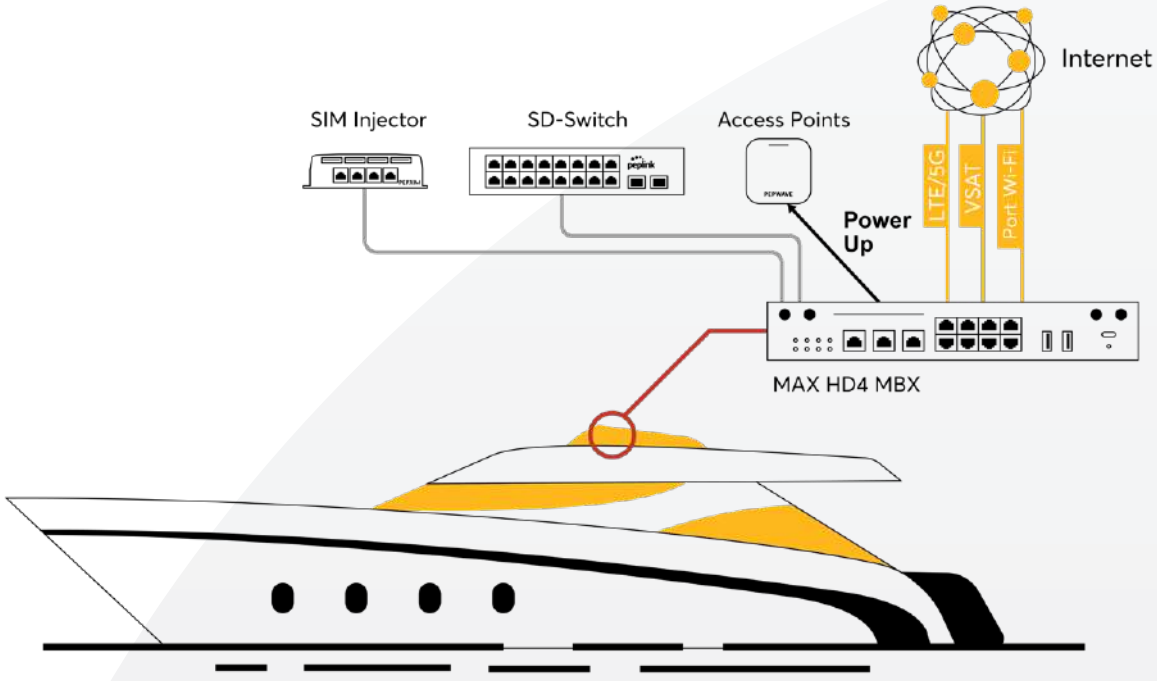
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The Big Picture






Internet
LTE
HD2 Dome ×2
VSAT
Port Wi-Fi
Balance 580
SD-Switch
Access Points
SIM Injector


Internet
SIM Injector
SD-Switch
Access Points
LTE/5G
VSAT
Port Wi-Fi
Power Up
MAX HD4 MBX

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Featured Products



EPX

- Connects to wide range of WAN options, from LTE-A, satellite modems, to fixed line networks
- Modular architecture enables flexibility to build EPX according to your demand
- 30 Gbps router throughput – enough for all guests on large vessels



MBX

- Supports 4 interchangeable LTE cellular modules which could be upgraded to 5G or any future mobile technologies
- MBX can receive LTE signal offshore (with good antenna setup) to minimise satellite bandwidth cost
- Supports WiFi as WAN near pier facilities



HD2 Dome

- Deployed outdoor with IP67 waterproof rating
- Integrated antennas to minimise cable loss, giving you the best signal possible.



Transit Duo (CAT-12 version)

- Worldwide coverage with CAT12
- Cost effective under PrimeCare model



SD Switch 16-Port Rugged

- Network switch fully manageable with InControl 2 cloud management
- Multiple PoE+ output reduces cable needs



SIM Injector

- Add up to 8x SIMs
- Mount the HD Dome / MBX on the Mast and manage SIMs from below decks

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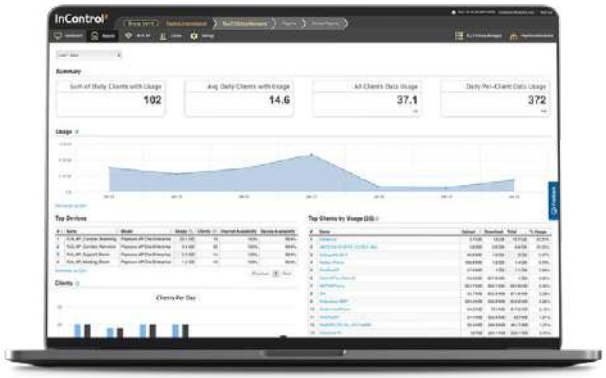
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APO AX

- Access point extends WiFi signal to cover the whole vessel
- Supports 802.11ax (Wi-Fi 6)
- Fully manageable with InControl 2 cloud management



InControl 2

Cloud-Based Network Management Platform

InControl2 cloud-based endpoint management system enabling remote access to any Peplink device on your network. From a single screen, configurations can be pushed to any and all of your Peplink devices. InControl2 also generates useful reports on all aspects of your network, and can be integrated to your existing systems through API.

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Media & Film

Project your imagination onto widescreens faster with Peplink

Whether your workflow involves print, Web design, video production, or digital photography, Peplink delivers high speed, low frustration networking, so you can spend more time creating, communicating with clients, and building your business.

What are your Challenges in Creativity Connectivity?

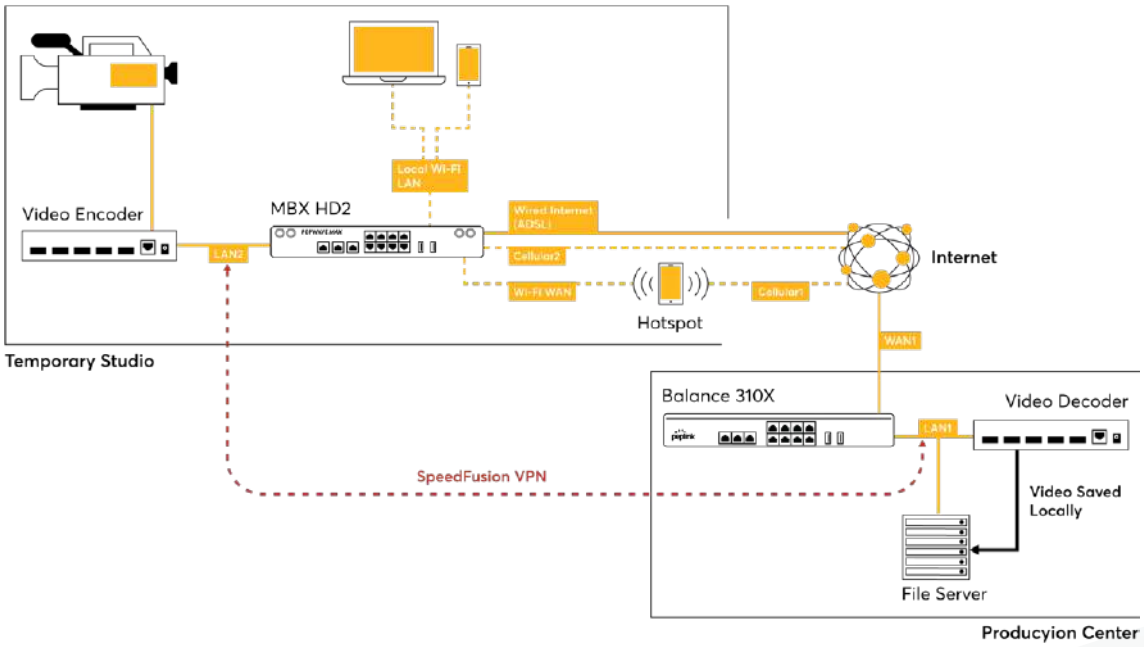
Keeping Media Production Stutter Free

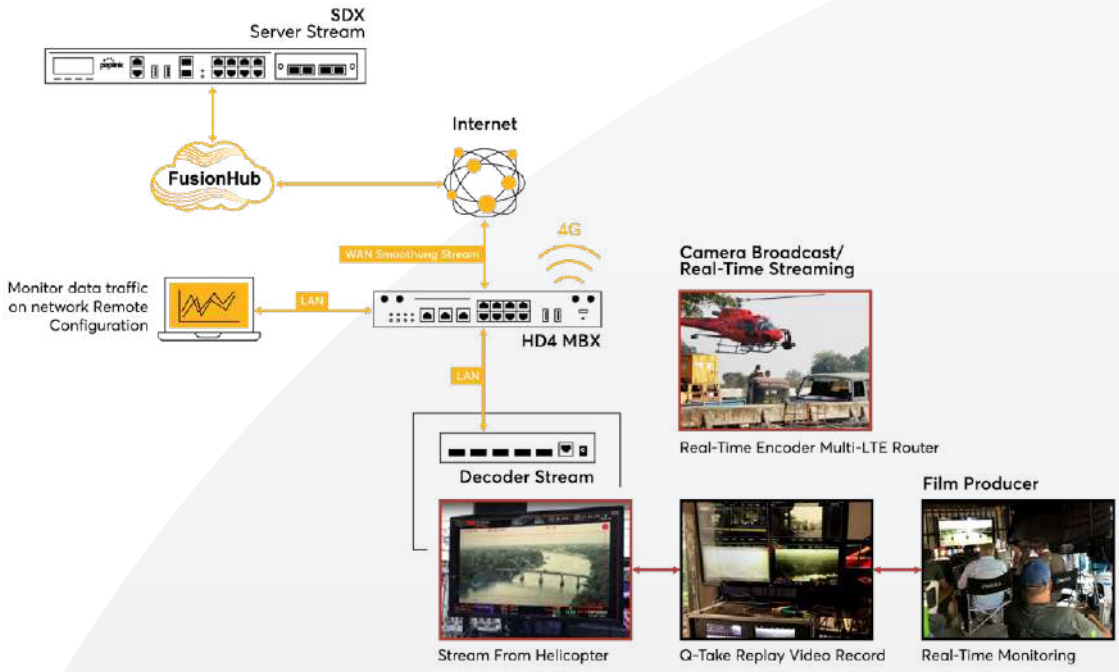
No matter where filming is done, media production teams rely on a smooth livestream to monitor and adjust what is filmed on the camera as required. In these situations, even a slight stutter or interruption could mean retaking the whole scene from scratch.

Cost Management

Film sets in outdoor locations often incur substantial data charges with satellite or specially ordered fixed line internet. These equipment also require teams to look after, adding even more cost.

The Big Picture





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Featured Products



HD2 MBX

- Deployed at the remote studio site
- Stream encoded video data through ADSL, cellular, and Wi-Fi connections as needed
- SpeedFusion bonding to improve bandwidth and upload speed



Balance 310X

- Deployed at the production office
- ADSL connections have slow upload speeds, faster speeds can be achieved by bonding ADSL with other connections



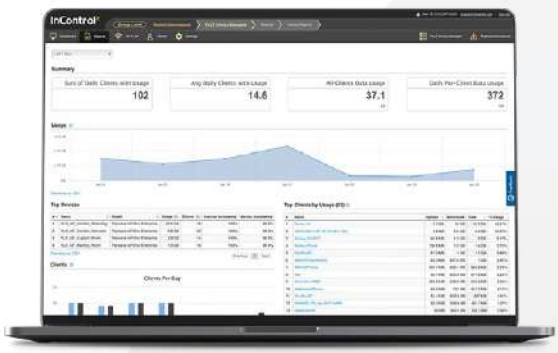
SDX

- Deployed for server streaming
- VPN connection to FusionHub installed in public cloud



HD4 MBX

- Deployed at film production site to receive encoder stream from helicopter
- Streams out video to filming crew for monitoring
- Bandwidth bonding of 4 LTE ensures fast uploads and stutter free streaming
- Data traffic performance can be monitored remotely via InControl2



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Broadcasting

Unbreakable Connectivity Anytime, Anywhere

Using LTE to stream live content has been gaining momentum across the mobile ecosystem. Streaming video at above-HD quality requires robust connectivity which is often beyond what a single LTE connection is capable of. Peplink's SpeedFusion and WAN Smoothing features ensure that LTE broadcasting works anytime, anywhere.

What Are Your Challenges in Broadcasting Connectivity?

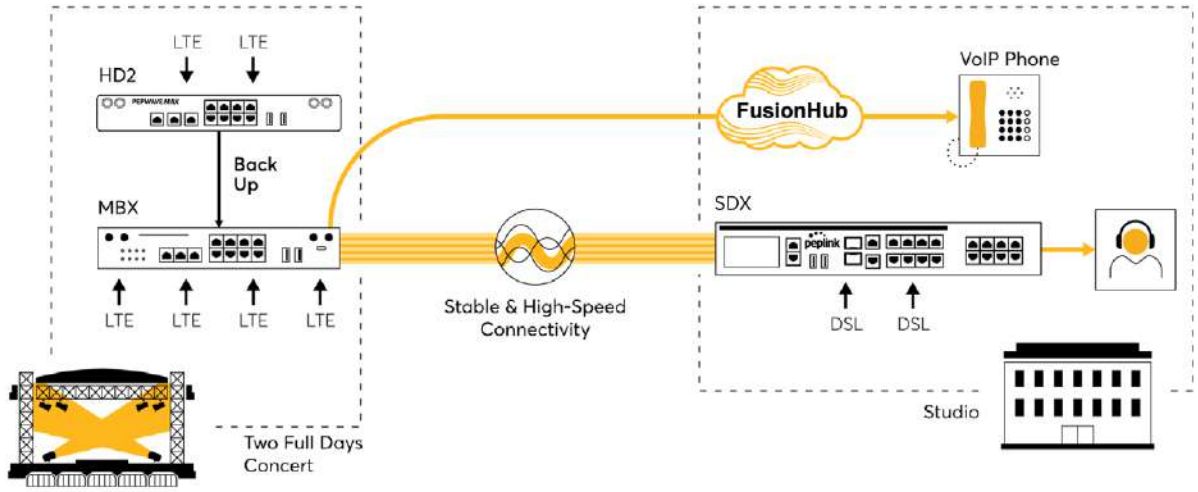
Ensuring Great Streaming Performance

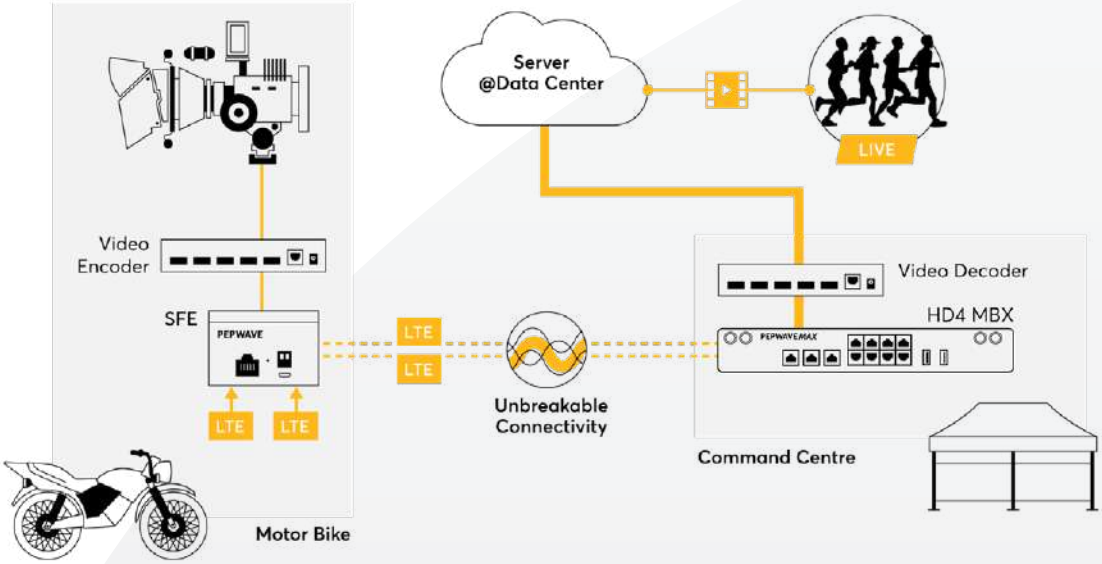
While mobile offers more mobility and lower cost compared to satellite broadcast, mobile networks are inherently unstable. Network speed fluctuates wildly according to utilisation, which creates undesirable stuttering. A single LTE connection is therefore hardly enough to ensure smooth broadcasting.

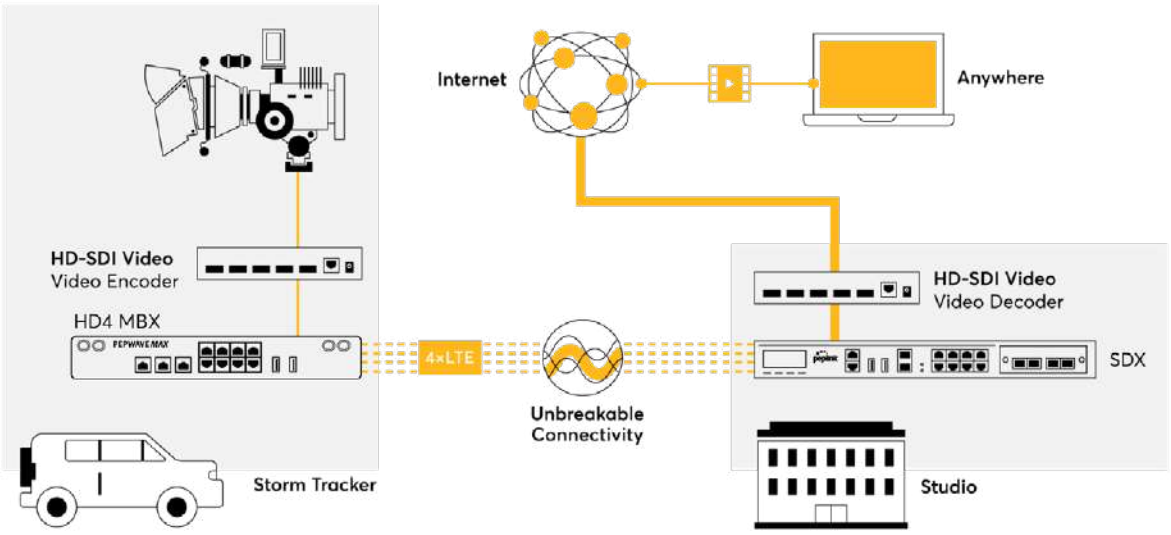
Cost Management

Broadcasting from outdoor locations often incur substantial cost with satellite or specially ordered fixed line internet which could take weeks to set up. These communication equipment also require specialised teams to look after, adding even more cost.

The Big Picture







Featured Products





SDX

- Deployed at the main studio with 2x DSL
- SpeedFusion tunnel with concert stage with priority to Audio over other internet traffic
- Uploads live stream to decoder into the Internet, which is then available to reporters and journalists

HD4 MBX

- Deployed as the main router at the concert stageMAX HD4
- Supports 4x LTE for stable and high-speed connectivity
- SpeedFusion tunnel with main studio with priority to Audio over other internet traffic
- Dedicated VoIP to FusionHub datacenter for direct dial-in

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HD2 MBX

- Deployed as backup to MBX at the concert stage
- Backup mobile 2x multi-LTE WAN



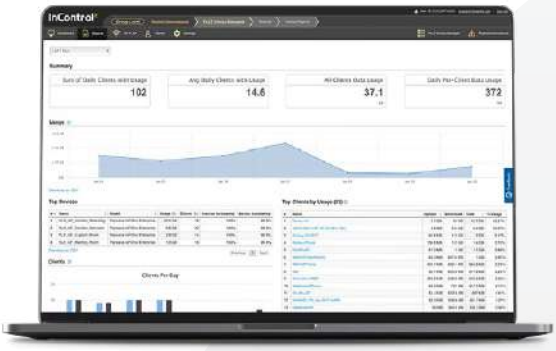
MAX HD4

- Deployed on the Storm Tracker vehicle
- Track storms live with video streaming back to studio over 4x LTE
- Easily installed into production truck, production van, and weather vehicle



SpeedFusion Engine

- Carried in the cameraman's backpack
- Ultra compact size with low power consumption
- Combines dual high speed cellular connections



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Industrial Connectivity

Automation requires a smart and secure network

An Industry 4.0 system is an interlocking network of hundreds of machines, sensors, instruments, IP cameras and multiple classes of devices working together. A reliable connectivity enables communication and live feedback among these devices, boosting production yield and keeping errors at bay.

What are your Challenges in Industrial Connectivity?

Securing the Network, Including Remotely Deployed Equipment

Network security has always been important. A single hacked instrument can lead to serious disruption. Securing remotely deployed sensors and instruments presents an even greater challenge.

Every Second Counts When the Network is Down

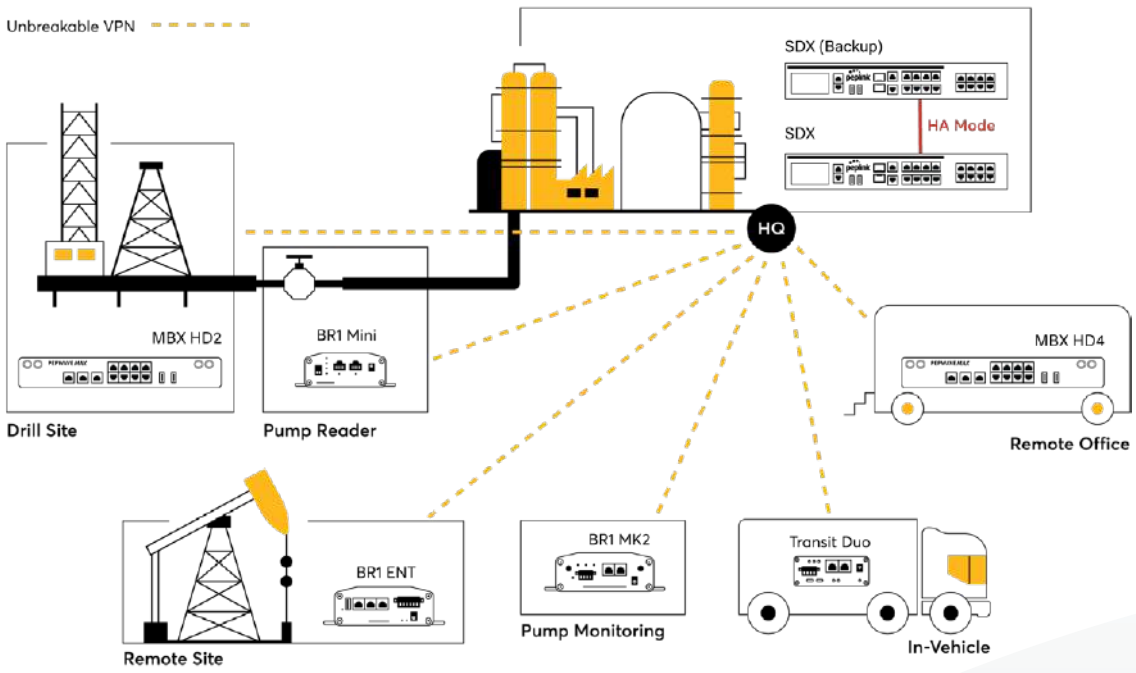
Network outages are sometimes unavoidable. Having a failover over a different type of connectivity that could kick in within seconds can prevent losses due to lost productivity.

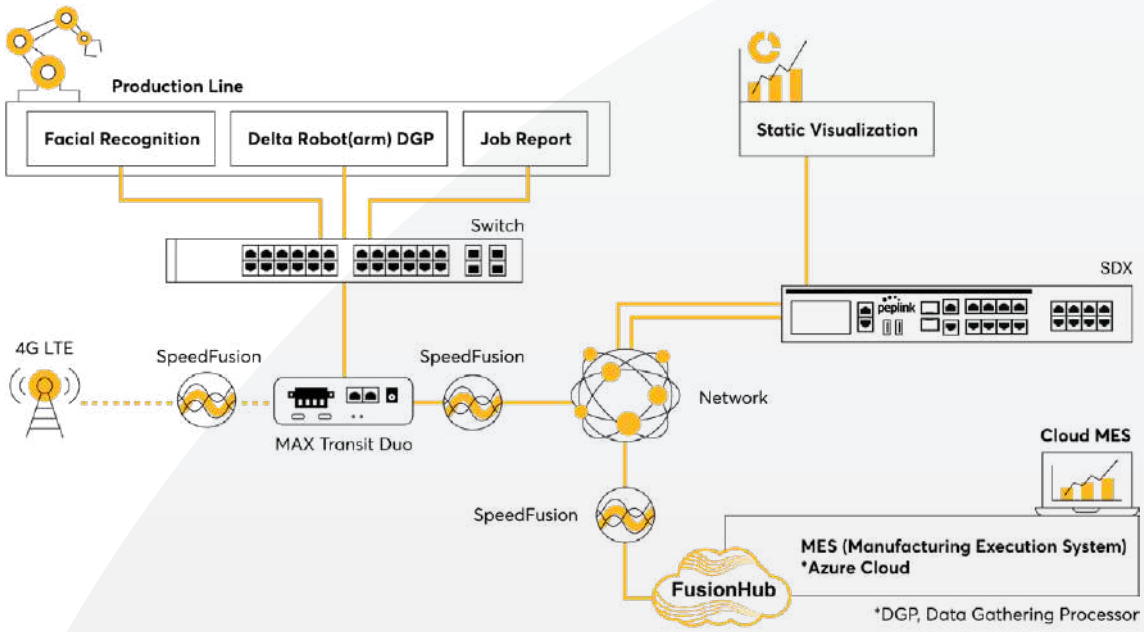
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The Big Picture





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Featured Products



SDX

- Deployed at HQ in High Availability mode to keep whole network up and running at all times
- Connects to Remote Terminal Unit on the LAN side and Programmable Logic Controller so customer can adjust pressure, temperature, flow rates



MBX HD4

- Connects Remote Office with HQ through SpeedFusion VPN
- Provides fast and reliable access to HQ resources over 4x LTE with SpeedFusion bandwidth bonding and intelligent load balancing



MBX HD2

- Deployed at remote drill sites to provide remote connectivity and VPN access to HQ
- Rugged metal enclosure for tough environment
- Dual cellular provides instant failover



BR1 ENT

- Deployed at remote sites with VPN access to HQ
- Supports a highspeed primary line with LTE as backup
- Built without Wi-Fi, which reduces chances of security breach



BR1 MK2

- Deployed at pumps for monitoring
- Redundant SIM slots with automatic switching to ensure always-on connectivity
- Can be remotely managed from HQ



BR1 Mini

- Deployed at pump readers to provide data stream
- Affordable cellular router for large-scale deployment

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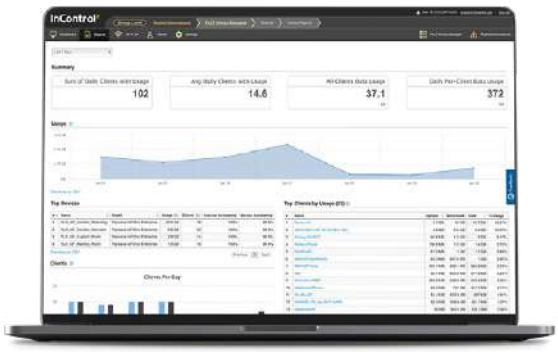
Transit Duo

- Built to withstand harsh environmental conditions
- Supports multi-type of WANs, easy to setup VPN anywhere
- Can also be used as primary connectivity
- Direct fleet tracking and management from HQ

FusionHub

FusionHub

- Virtual VPN appliance for public/private cloud
- Available on the AWS marketplace, easy to build and maintain



InControl 2

Cloud-Based Network Management Platform

InControl2 cloud-based endpoint management system enabling remote access to any Peplink device on your network. From a single screen, configurations can be pushed to any and all of your Peplink devices. InControl2 also generates useful reports on all aspects of your network, and can be integrated to your existing systems through API.

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