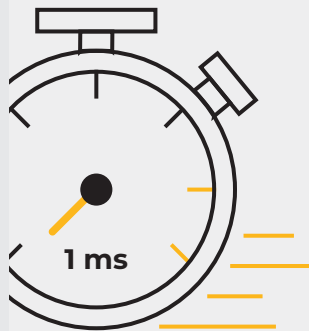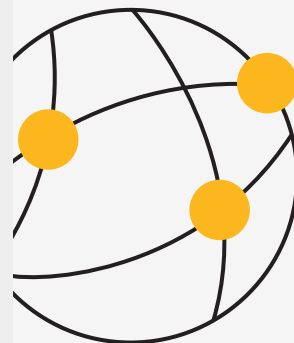## UHD

Ultra-High Definition

Increasing demand for high resolution videos.

Ultra-Low Latency

1 ms

Users want to view streams as close to real-time as possible.

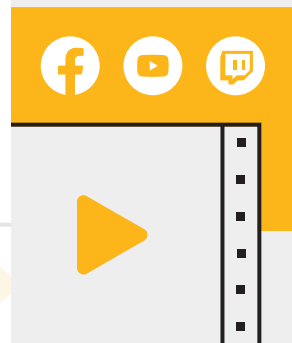### Content Delivery Network

Minimize congestion and server workload.

Video-on-Demand

Customers want to watch content on their terms.
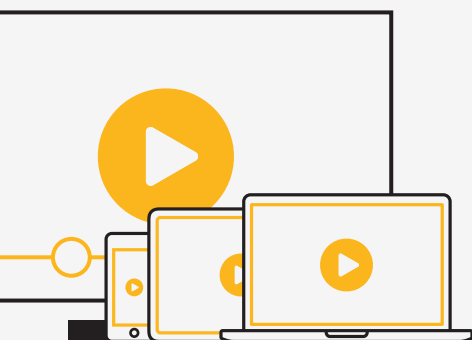
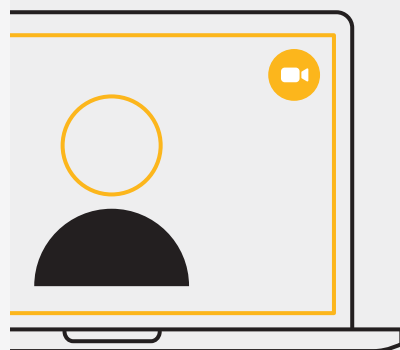## peplink | PEPWAVE

Market Trends for Broadcasting

Multi-Streaming

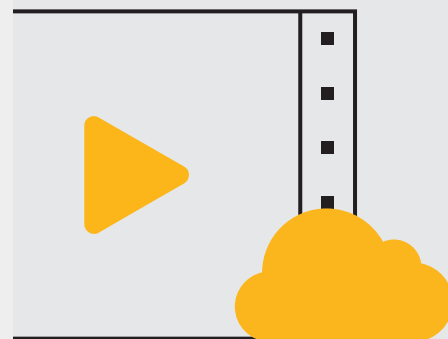Reach your audience on their favorite platform.

Streaming Video-on-Demand

Save content on the cloud for users to watch at any time from anywhere.

Remote Production

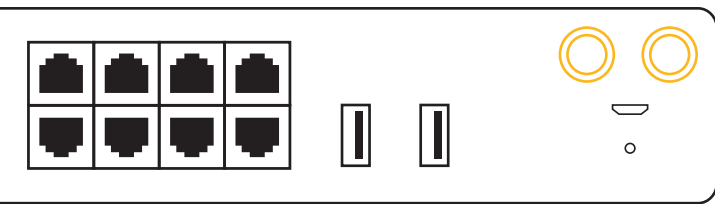Work with the best talent from around the world.

Streaming via Cloud

Stream to the cloud, broadcast to the world.

What's Unique about Peplink

Multi-cellular router
for Broadcasting

PEPWAVE **MAX** cellular router

Peplink Devices

Seamless Failover

Protects persistent connections
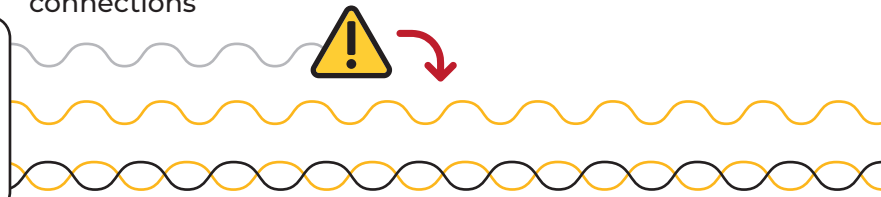
Smart algorithms for achieving smooth, jitter-free connections
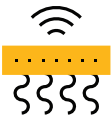
Bandwidth Bonding - Bonds multiple connections into one

Supports streaming multiple file formats

256-AES encrypted VPN with additional security at every layer and point for complete protection.

Their Devices

Cold Failover

1-2 minute outage, call dropped, jitter, and packet loss

No / little protection against packet loss, resulting in poor quality transmissions

No / limited bonding

Only streams the video file

Basic VPN

Remote Lectures
UBR LTE

- Multi-WAN inputs
- Advanced VPN protection
- SpeedFusion technology

Workflow

Lecturers

UBR LTE
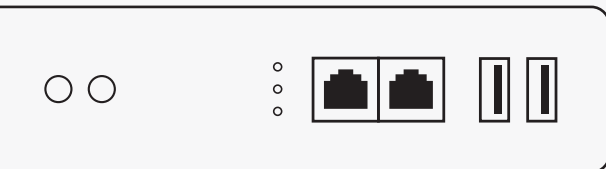Dual-cellular router with redundant SIM slots, providing an all-in-one WAN solution.

LTE   LTE   ADSL

PEPWAVE MAX
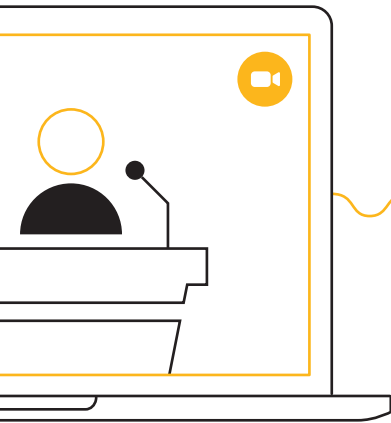
VPN endpoint providing Bandwidth Bonding, WAN Smoothing, and other features for smooth, unbroken video conferencing.

FusionHub
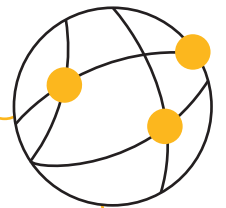
Internet

Students
Easily deliver quality video to large classes seamlessly.
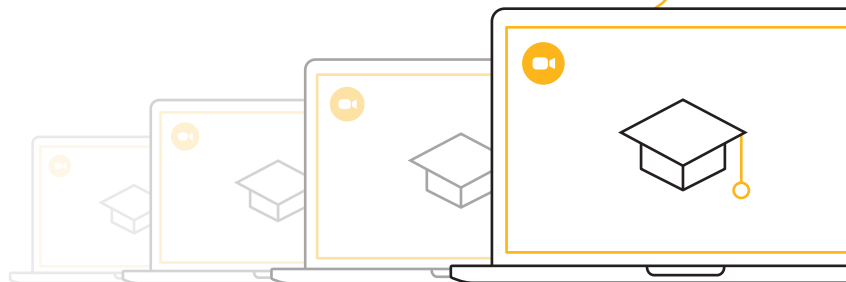
YouTuber
MAX Transit Duo

- Portable dual cellular multi-WAN router
- USB power input
- SpeedFusion technology

Workflow

Studio

Home router   **MAX Transit Duo**

Deploy at home to provide LTE back-up support for home networks.

OR

Outdoor Site

USB Power Bank   **MAX Transit Duo**

Easily take the MAX Transit Duo outdoors with just a USB power bank.

Internet

SPEEDFUSION Cloud

Forward Error Correction

Home Internet

LTE

LTE

SpeedFusion protects your connection via Hot Failover.

PEPWAVE *MAX*
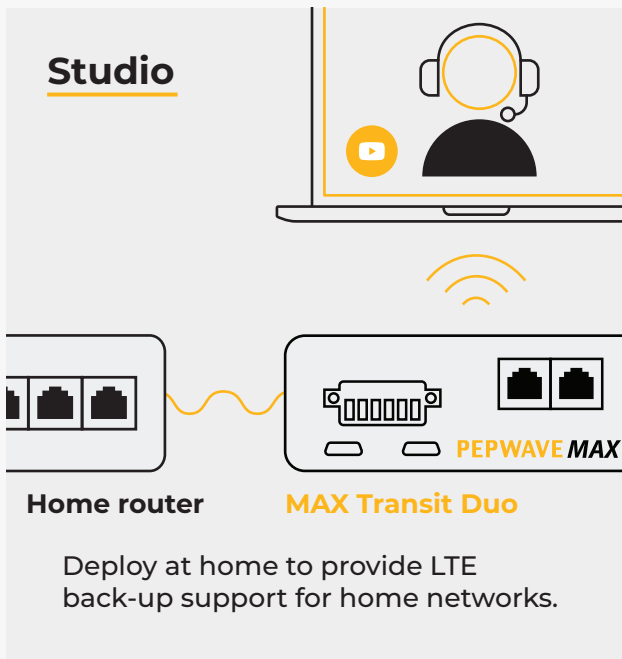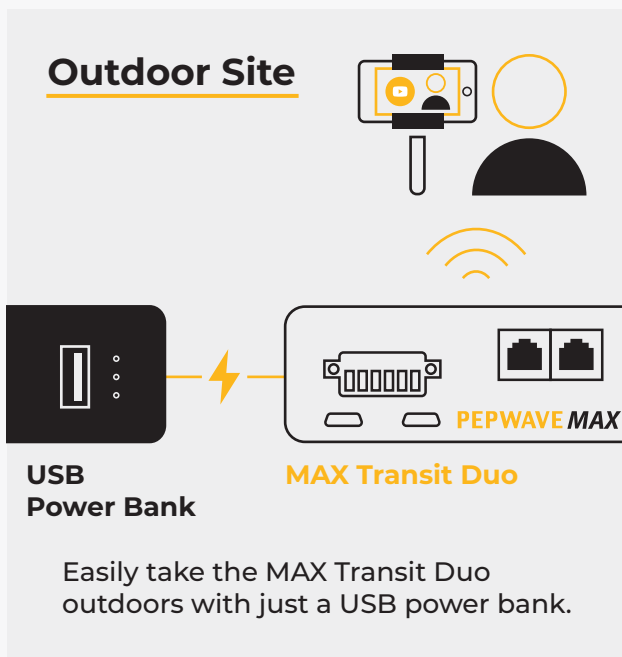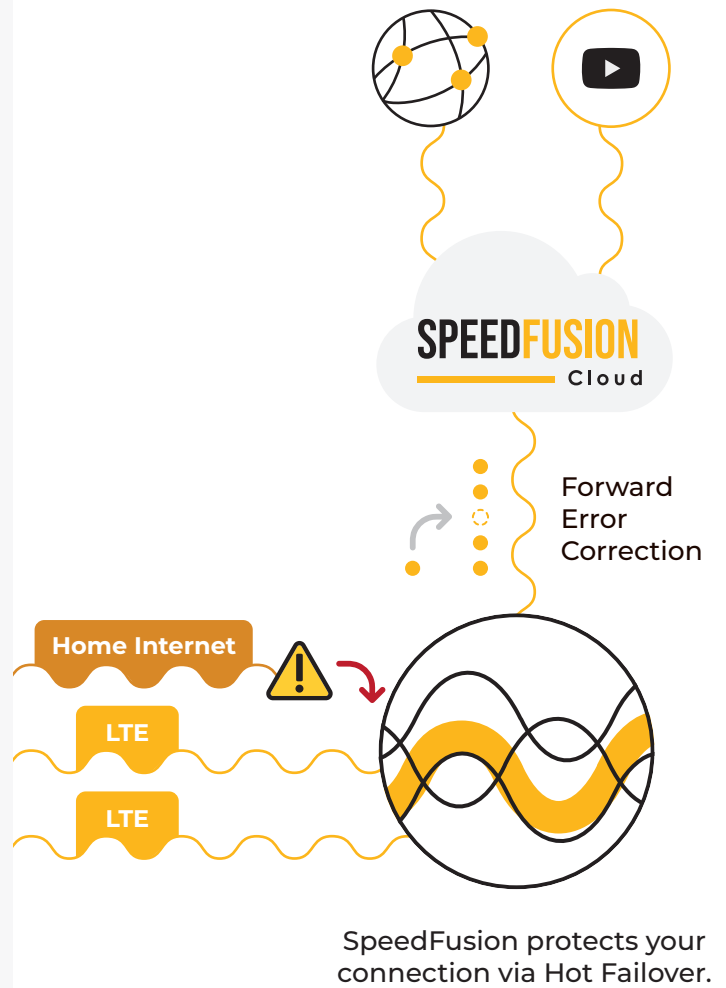
Events

HD4 MBX

- 2.5Gbps throughput
- Upgradable to 5G
- SpeedFusion technology

PEPWAVE MAX cellular router

Wi-Fi 1

Cellular 1 Cellular 3 Wi-Fi 1 Power
Cellular 2 Cellular 4 Wi-Fi 2 Status

WAN 1   2   3 / LAN 9   LAN 1 3 5 7
         2 4 6 8

Workflow

Broadcast high-definition footage in real-time direct from the action.

Near real-time video delivered jitter-free.

Video Server @Data Center

VPN endpoint hosted on the cloud to allow for rapid distribution of footage.

SPEEDFUSION
Cloud

LTE   LTE   LTE   LTE

PEPWAVE MAX

Video Encoder

HD4 MBX

Multi-cellular router forms a VPN tunnel with SpeedFusion Cloud, enabling SpeedFusion technologies.

Media Broadcasting

SFE Camera

- Embedded to the camera
- Various connectivity options - Wi-Fi AP or WAN
- Cloud service and technology

Workflow

A cellular connection is used for broadcasting high-definition footage in real-time.

LTE

LTE

LTE

LTE
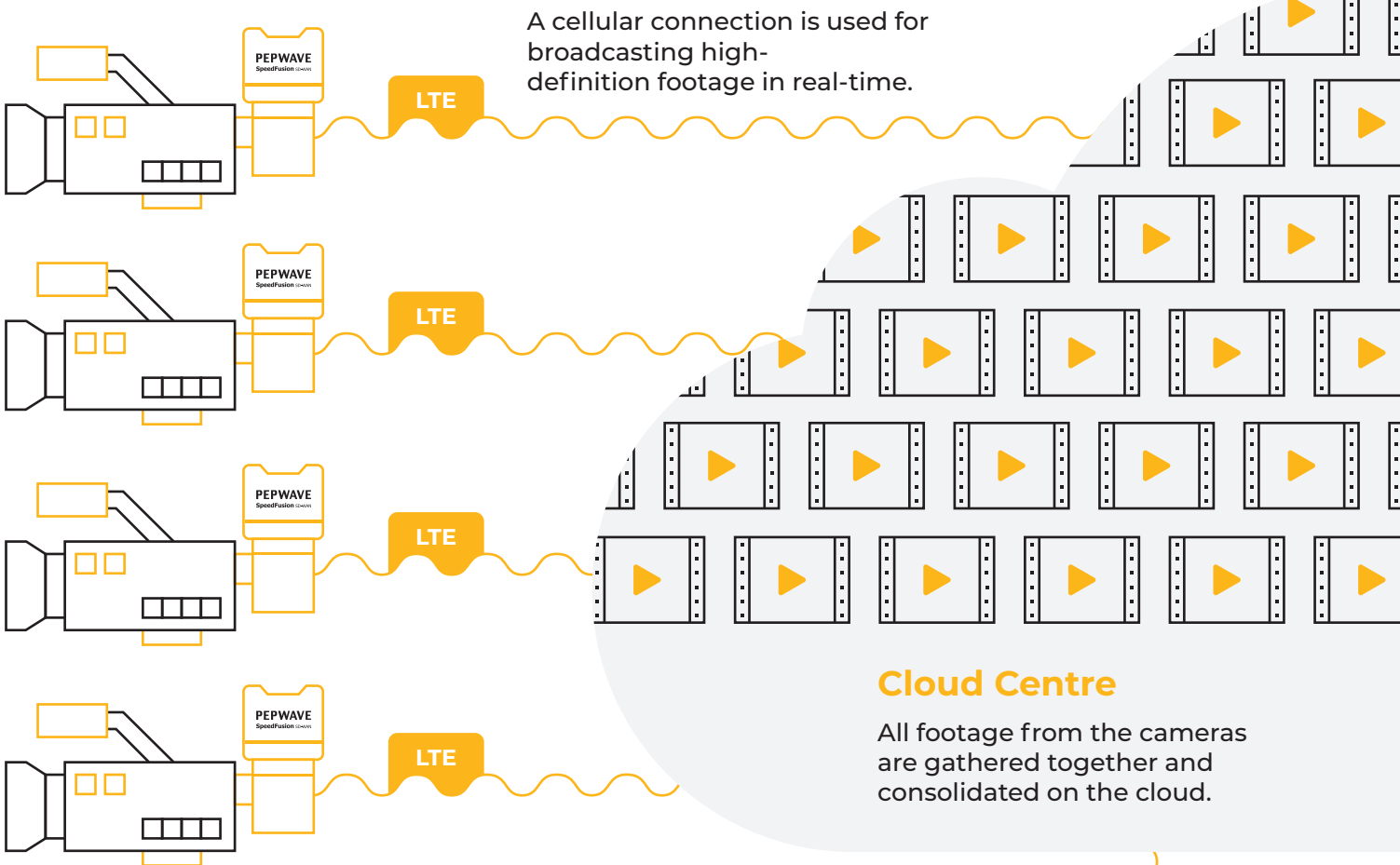
Cloud Centre

All footage from the cameras are gathered together and consolidated on the cloud.

SFE Camera

Multiple cameras film the same event from different angles.

Internet

Viewers can watch the event in high definition from any angle they choose.

Film Production
SDX Pro and HD Dome
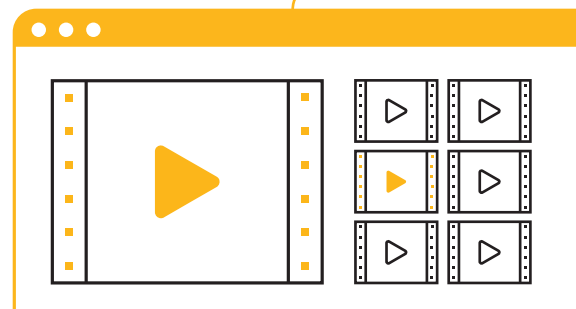
- SDX Pro deployed as a load balancer
- SIM Injector for easy SIM management
- HD Dome deployed as expandable cellular nodes

Workflow

LTE x12

HD Dome

IP67 rated casing protects antennas from the elements, making it ideal for outdoor deployments.

SIM Injector

SIM Injectors allow for easy and quick swapping of SIM cards, simplifying SIM management.

SDX Pro

Modular powerhouse router provides flexibility and capability to handle 12x LTE.

Remote Site

Bandwidth Bonding

WAN Smoothing

SpeedFusion

Bandwidth Bonding combines the bandwidth of 12x LTE into a single mega-bandwidth channel that is ready and capable of handling any use.

SDX Pro