

MAX HD2/4 with MediaFast

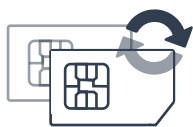
Dual/Quad 4G LTE Content Caching Router

PEPWAVE
Broadband Possibilities



Quad 4G LTE Content Caching Router

The HD2 MediaFast and HD4 MediaFast team up embedded cellular modems and other great features of the HD Series with our MediaFast content caching, which lets you store content for later playback anywhere, regardless of connectivity.



Dual/Quad Embedded Cellular Modems

The HD2 with MediaFast includes two built-in 4G LTE modems (four on the HD4 with Mediafast). It allows you to use the same or different cellular providers for bandwidth bonding, data overage protection or eliminating blind spots.



SpeedFusion Bandwidth Bonding and Seamless Failover

SpeedFusion bandwidth bonding technology bonds all connected bandwidth into a single superfast stream, using the same or different cellular providers.

Works with:



iTunes U



iTunes



TED.com

and more...



Fleet Tracking and Management

With built-in GPS fleet tracking and InControl 2 cloud-based management, you can keep tabs on location and manage your mobile network from any Internet-connected device.



Customize Captive Portal

Branding your captive portal is as easy as uploading your logo and terms & conditions. You can easily set bandwidth allowance and access duration per user or manage access using RADIUS.



Mobile Content Caching

Deliver endless content without consuming endless bandwidth. The MediaFast Editions of the HD2 and HD4 let you download content once and play it back without limit, even in locations where connectivity is spotty or absent.

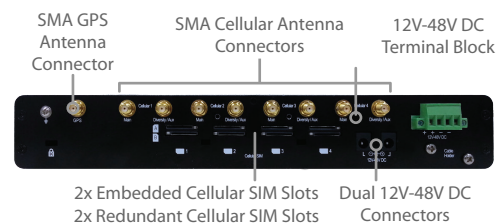
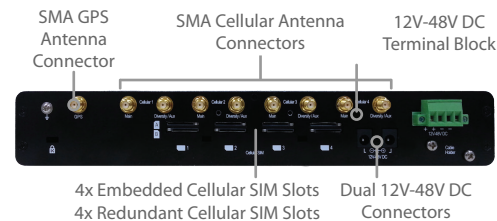
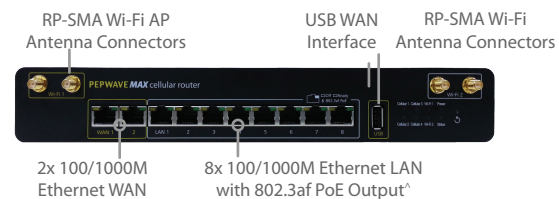


Certified Toughness

In addition to rugged metal enclosure, HD4 has certifications on:
Shock and vibration resistance (EN 61373:1999, IEC 61373:1999)
Railway applications (EN 50155)
Electromagnetic Compatibility (EN 61000)

Specifications

	MAX HD2 with MediaFast	MAX HD4 with MediaFast
WAN Interface	2x Embedded LTE Modems with Redundant SIM Slots 1x USB Interface 2x GE	4x Embedded LTE Modems with Redundant SIM Slots 1x USB Interface 2x GE
LAN Interface	8x GE	
Wi-Fi Interface	802.11a/b/g/n 300Mbps 2x2 MIMO Wi-Fi WAN and/or AP	
Disk Drive	120GB SSD	
Cache Throughput	150Mbps	
Router Throughput	80Mbps	
Cellular and GPS Antenna Connector	8x SMA Antenna Connectors 1x SMA GPS Antenna Connector 4x Dual Band Wi-Fi Antennas	
Power Input	DC Jack/Terminal Block: 12V - 48V, 4A	
Power Output	Up to Eight 802.3af PoE Outputs [#]	
Power Consumption	38W (max.)	
Dimensions	1.9 x 11.5 x 6.9 inches 50 x 292 x 177 mm	
Weight	4.20 pounds 1.9 kg	
Operating Temperature	-40° - 149°F -40° - 65°C	
Humidity	15% - 95% (non-condensing)	
Certifications	FCC, CE, RoHS, E-Mark EN 61373:1999 IEC 61373:1999 : Shock and Vibration Resistance: EN 50155: Railway Applications EN 61000: Electromagnetic Compatibility	
Warranty	1-Year Limited Warranty	



[#]PoE Kit is available separately.

Ordering Information

MAX HD2 with MediaFast

Product Code	Carrier	Embedded Modem	4G Bands/Frequencies (MHz)	3G Bands/Frequencies (MHz)
MAX-HD2-MFA-LTE-US-T	Verizon/Sprint/AT&T	2	4G LTE: B2/1900, B4/AWS, B5/850, B13/700, B17/700, B25/1900	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/2100, B2/1900, B4/AWS, B5/850, B8/900 EV-DO Rev.A: BC0/800, BC1/1900, BC10/800
MAX-HD2-MFA-LTE-E-T	4G LTE/HSPA+	2	4G LTE: B1/2100, B3/1800, B7/2600, B8/900, B20/800	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/2100, B2/1900, B5/850, B6/800, B8/900

MAX HD4 with MediaFast

Product Code	Carrier	Embedded Modem	4G Bands/Frequencies (MHz)	3G Bands/Frequencies (MHz)
MAX-HD4-MFA-LTE-US-T	Verizon/Sprint/AT&T	4	4G LTE: B2/1900, B4/AWS, B5/850, B13/700, B17/700, B25/1900	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/2100, B2/1900, B4/AWS, B5/850, B8/900 EV-DO Rev.A: BC0/800, BC1/1900, BC10/800
MAX-HD4-MFA-LTE-E-T	4G LTE/HSPA+	4	4G LTE: B1/2100, B3/1800, B7/2600, B8/900, B20/800	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/2100, B2/1900, B5/850, B6/800, B8/900

PoE Activation Kit

Product Code	Description
ACW-609	Includes 1x 48V Power Supply and PoE License. Enables 4x 802.3af PoE Output Ports Requires 2x ACW-609 to enable all PoE ports

Features

WAN

Support for PPPoE, Static IP, DHCP
WAN Link Health Check
Bandwidth Allowance Monitor
USB 4G LTE/3G Modem Support
Support for Dynamic DNS Services
IPv6 Support

LAN

DHCP Server for LAN Clients
Extended DHCP Options
DHCP Reservation
DNS Proxy for LAN Clients

DNS^{*}

Built-in Authoritative DNS
Support for A, CNAME, NS, MX, PTR, SOA, SRV, TXT Records

Advanced QoS

User Groups
Bandwidth Reservation^{*}
Individual Bandwidth Limit
Application Prioritization
By User Groups
SIP, HTTPS, VPN QoS
Custom Application QoS

Caching

Video Caching
iTunes
iTunes U
TED.com
Content Caching
HTML
JavaScript
Image
Flash Application

Networking

NAT and IP Forwarding
Static Routes
Port Forwarding
Many to One, One to One NAT
NAT Pool
SIP ALG, H.323 ALG
UPnP, NAT-PMP
WINS Server
OSPF and RIPv2 support^{*}

AP Controller

Support for Pepwave AP Series
Auto AP Discovery
Auto AP Firmware Management
AP Profile Configuration
Wi-Fi usage statistics

Load Balancing^{*}

Intelligent Failover
Session Persistence
Per-Service Load Distribution
Multiple Algorithms

Complete VPN Solution^{*}

PepVPN/SpeedFusion
Site-to-Site VPN
Bandwidth Aggregation
Intelligent Failover
256-bit AES Encryption
Pre-shared Key Authentication
Dynamic Routing
PPTP VPN Server
RADIUS, LDAP Authentication
IPsec VPN (Network-to-Network)

Device Management

Web Administrative Interface
Command Line Interface
InControl Cloud Management
Router Utility Mobile App
Email Notification
Active Client & Session Lists
Bandwidth Usage Statistics
Syslog Service
SNMP v1, v2c and v3

Security

Stateful Firewall
DoS Prevention

^{*}Specifications vary across different models. For the most updated specifications, please refer to our website.

Applications

Accelerate Branch/Offsite Networking with Content Prefetching

Retail



Point of Sale/
Sales Info

Digital Signage



Advertisement/
Roadshow

First Responders

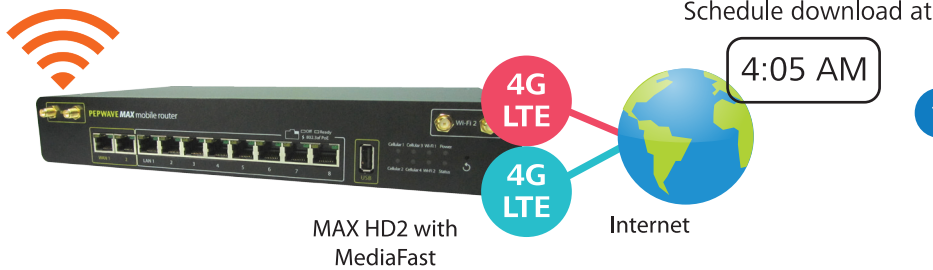


Operation
Manual

Make downloaded content available to branch offices without stressing your WAN and racking up huge peak usage bills

Take your show on the road with preloaded ads, demos, websites, and more

Provide quick, uninterrupted access to crucial intelligence in emergency and other mission-critical applications



- 1 Transfer large spreadsheets, documents, presentations, and other business assets overnight or whenever network usage is light

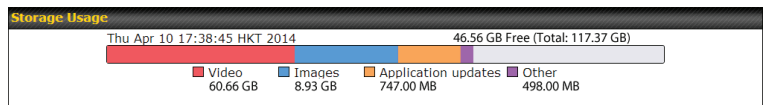
Turbocharge Existing Wi-Fi Hotspots with Cached Content

- 2 Cache content from iTunes/iTunes U, TED, and other providers

- 1 Download and store video, audio, HTML, and other content on MediaFast. You can also store textbooks and apps



Your existing
WLAN network



Bandwidth Summary

	Bandwidth Saved	Total Bandwidth	Accesses
Today	16.90 GB (18.53%)	91.22 GB	1 195
Last week	97.28 GB (10.82%)	898.90 GB	981 567
Last month	2641.26 GB (7.24%)	3648.15 GB	3 926 813
Last year	2641.26 GB (7.24%)	3648.15 GB	3 926 813

Bandwidth Details

Period: Today 1 Week 1 Month 1 Year

Order: Top Hit Top Usage Top Visited Top Missed

Web Domain	Bandwidth Saved	Total Bandwidth	Accesses
theguardian.com	2.61 GB (53.16%)	4.91 GB	1830
ted.com	12.52 KB (36.00%)	34.77 MB	850



- 3 Provide content anywhere using an existing Wi-Fi hotspot. MediaFast instantly drops into any wireless network and delivers uninterrupted learning and entertainment, even in low-bandwidth environments