

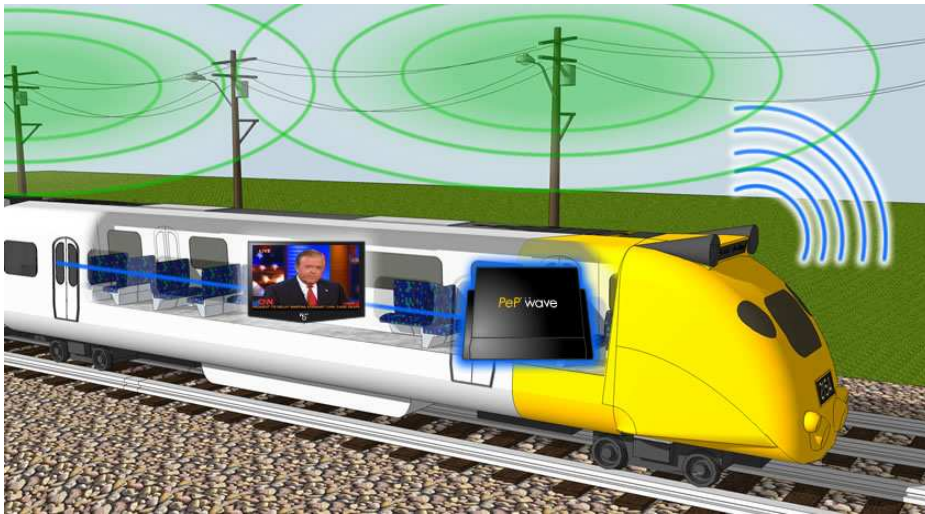
PePWave Mobility Product Family

TrainFi Series

Seamless, Ultra-Fast Wi-Fi for Train Mobility Systems

PePWave TrainFi, housed in a ruggedized enclosure, is a purpose-built Wi-Fi modem for trains and other high speed, mass transportation systems. With its advanced algorithms, it is able to provide a stable Wi-Fi connection in a moving vehicle at speed up to 75 miles/h.

The PePWave TrainFi is capable of roaming between access points in precise time, which avoids disruptive gaps in Wi-Fi signal strength on a fast moving train. It maintains Wi-Fi network continuity without re-configuration, and ensures adequate bandwidth and consistency for multimedia content over Wi-Fi networks.



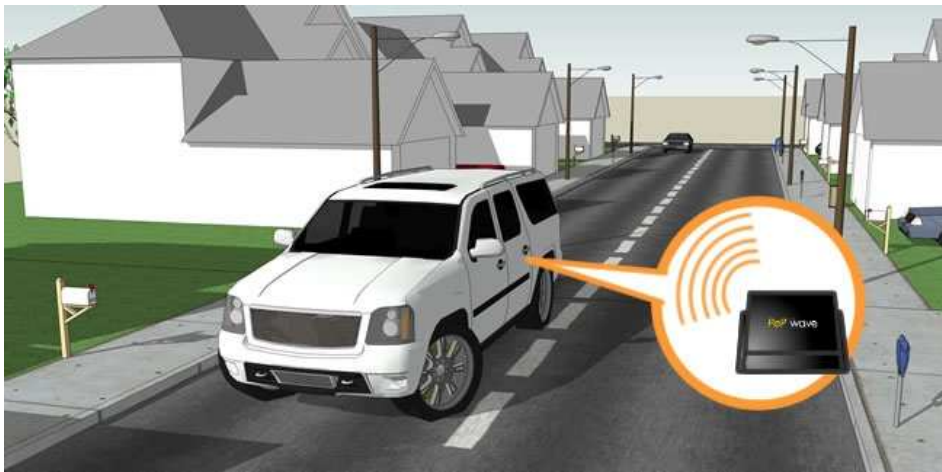
In this example, PePWave TrainFi maintains stable bandwidth for enabling multimedia, real-time content.

CarFi Series

High-Speed Wi-Fi Connectivity on Vehicles

The PePWave CarFi solution fills the needs of mobile professionals who need connectivity while in or near their cars. CarFi's enhanced roaming algorithm makes it ready to enable roadside Wi-Fi connectivity anywhere in a city's Wi-Fi coverage area. It makes staying connected in your car a comfortable experience.

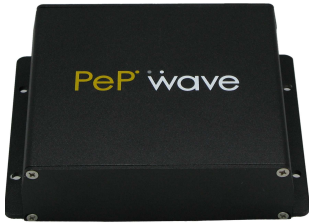
There are many groups of workers who can benefit from mobile Wi-Fi access, however achieving a stable connection with a laptop or PDA can be a frustrating experience. Private companies and individuals like realtors, contractors, salespeople, and other field service employees can now take advantage of high speed connectivity while on the vehicles. PePWave CarFi enhances the productivity of workers by providing a fast and secure Wi-Fi connection in and around a stationary vehicle.



In this example, PePWave CarFi enables in-car stable Wi-Fi connectivity.



In this example, PePWave Mobility family enables mobile Internet for public transportation systems, utilities and city services.



CarFi Specification

Functionality and Compatibility

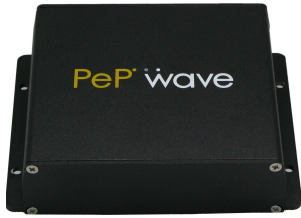
Model	PePWave CarFi E200, 200, 205 and 400
Wireless Protocol	802.11a (CarFi 205); 802.11b/g (CarFi E200, 200,400)
Security	802.1x, 64/128-bit WEP, WPA, WPA2, 802.11i

Hardware Specification

Model	CarFi E200	CarFi 200	CarFi 400	CarFi 205
Country / Region	Europe		US and International	
LAN Interface	Fast Ethernet 802.11b/g	Fast Ethernet 802.11b/g	Fast Ethernet 802.11b/g	Fast Ethernet 802.11a
WAN Interface	802.11b/g	802.11b/g	802.11b/g	802.11a
Transmit Power (802.11b)	100mW 20dBm@1Mbps 20dBm@2Mbps 20dBm@5.5Mbps 20dBm@11Mbps (±1.5dB)	200mW 23dBm@1Mbps 23dBm@2Mbps 23dBm@5.5Mbps 23dBm@11Mbps (±1.5dB)	400mW 26dBm@1Mbps 26dBm@2Mbps 26dBm@5.5Mbps 26dBm@11Mbps (±1dB)	5.18~5.24GHz 17dBm@6~36Mbps 16dBm@48Mbps 15dBm@54Mbps
	Transmit Power (802.11g OFDM)	20dBm@6Mbps 20dBm@9Mbps 20dBm@12Mbps 20dBm@18Mbps 20dBm@24Mbps 20dBm@36Mbps 20dBm@48Mbps 20dBm@54Mbps (±1.5dB)	23dBm@6Mbps 23dBm@9Mbps 23dBm@12Mbps 23dBm@18Mbps 23dBm@24Mbps 23dBm@36Mbps 20dBm@48Mbps 20dBm@54Mbps (+/-1.5dB)	26dBm@6Mbps 26dBm@9Mbps 26dBm@12Mbps 26dBm@18Mbps 26dBm@24Mbps 24dBm@36Mbps 21dBm@48Mbps 21dBm@54Mbps (+/-1dB)
Receive Sensitivity (802.11b)		--96dBm@1Mbps -95dBm@2Mbps -94dBm@5.5Mbps -92dBm@11Mbps (+/- 1.5dB)	-96dBm@1Mbps -95dBm@2Mbps -94dBm@5.5Mbps -92dBm@11Mbps (+/-1.5dB)	-97dBm@1Mbps -96dBm@2Mbps -95dBm@5.5Mbps -93dBm@11Mbps (+/-1dB)
	Receive Sensitivity (802.11g OFDM)	-94dBm@6Mbps -92dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -82dBm@36Mbps -76dBm@48Mbps -74dBm@54Mbps (+/- 1.5dB)	-94dBm@6Mbps -92dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -82dBm@36Mbps -76dBm@48Mbps -74dBm@54Mbps (+/-1.5dB)	-94dBm@6Mbps -93dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -83dBm@36Mbps -77dBm@48Mbps -75dBm@54Mbps (+/-1dB)
Power Input	DC 12V			
Power Consumption	5W (Max.)	5W (Max.)	7W (Max.)	5W (Max.)
Antenna Connector	RP-SMA Connector			
Certifications	CE, RoHS		FCC, RoHS	

Form Factor and Miscellaneous

Model	CarFi E200, 200, 205 and 400
Dimensions (W x H x D)	127.1 x 107.4 x 32.1 mm / 5.0 x 4.2 x 1.3 in
Weight	330g / 0.7 lb
Operation Temperature	-20 to 75°C / -4 to 167°F
Humidity	15 to 95%
Warranty	One-year Limited Warranty



TrainFi Specification

Functionality and Compatibility

Model	PePWave TrainFi E200, 200, 205 and 400
Wireless Protocol	802.11a (TrainFi 205); 802.11b/g (TrainFi E200, 200,400)
Security	64/128-bit WEP

Hardware Specification

Model	TrainFi E200	TrainFi 200	TrainFi 400	TrainFi 205
Country / Region	Europe		U S and International	
LAN Interface	Fast Ethernet	Fast Ethernet	Fast Ethernet	Fast Ethernet
WAN Interface	802.11b/g	802.11b/g	802.11b/g	802.11a
Transmit Power (802.11b)	100mW 20dBm@1Mbps 20dBm@2Mbps 20dBm@5.5Mbps 20dBm@11Mbps (±1.5dB)	200mW 23dBm@1Mbps 23dBm@2Mbps 23dBm@5.5Mbps 23dBm@11Mbps (±1.5dB)	400mW 26dBm@1Mbps 26dBm@2Mbps 26dBm@5.5Mbps 26dBm@11Mbps (±1dB)	5.18~5.24GHz 17dBm@6~36Mbps 16dBm@48Mbps 15dBm@54Mbps
	Transmit Power (802.11g OFDM)	20dBm@6Mbps 20dBm@9Mbps 20dBm@12Mbps 20dBm@18Mbps 20dBm@24Mbps 20dBm@36Mbps 20dBm@48Mbps 20dBm@54Mbps (±1.5dB)	23dBm@6Mbps 23dBm@9Mbps 23dBm@12Mbps 23dBm@18Mbps 23dBm@24Mbps 23dBm@36Mbps 21dBm@48Mbps 20dBm@54Mbps (+/-1.5dB)	26dBm@6Mbps 26dBm@9Mbps 26dBm@12Mbps 26dBm@18Mbps 26dBm@24Mbps 24dBm@36Mbps 22dBm@48Mbps 21dBm@54Mbps (+/-1dB)
Receive Sensitivity (802.11b)		--96dBm@1Mbps -95dBm@2Mbps -94dBm@5.5Mbps -92dBm@11Mbps (+/- 1.5dB)	-96dBm@1Mbps -95dBm@2Mbps -94dBm@5.5Mbps -92dBm@11Mbps (+/-1.5dB)	-97dBm@1Mbps -96dBm@2Mbps -95dBm@5.5Mbps -93dBm@11Mbps (+/-1dB)
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Power Input	DC 5V			
Power Consumption	5W (Max.)	5W (Max.)	7W (Max.)	5W (Max.)
Antenna Connector	RP-TNC Female Connector			
Certifications	CE, RoHS		FCC, RoHS	

Form Factor and Miscellaneous

Model	TrainFi E200, 200, 205 and 400
Dimensions (W x H x D)	127.1 x 107.4 x 32.1 mm / 5.0 x 4.2 x 1.3 in
Weight	330g / 0.7 lb
Operation Temperature	-20 to 75°C / -4 to 167°F
Humidity	15 to 95%
Warranty	One-year Limited Warranty