

## Florian Kempff IPmotion GmbH, Heuchelheim, GER

May 2021 "Green Transport in Germany and Denmark - Solutions for the Future of Mobility"





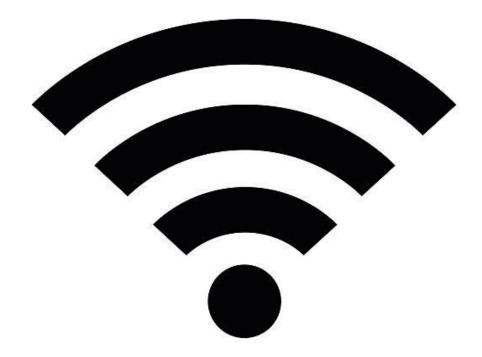
# What drives IPmotion?

- Inventiveness and the ability to listen.
- We have been making mobile routers for 21 years.
- We manufacture our own router hardware and program our own fully remote maintainable operating system based on Linux.
- We avoid electrical waste by designing appliances to be modular and durable.
- Our customers are farmers, fire brigades, municipalities and transport companies, whom we advise and digitize.
- We prefer long-lasting customer relationships.
- We enjoy our work because our customers see the success immediately, just like when they clean their windows.





### and ...













# Main product for heavy vehicles

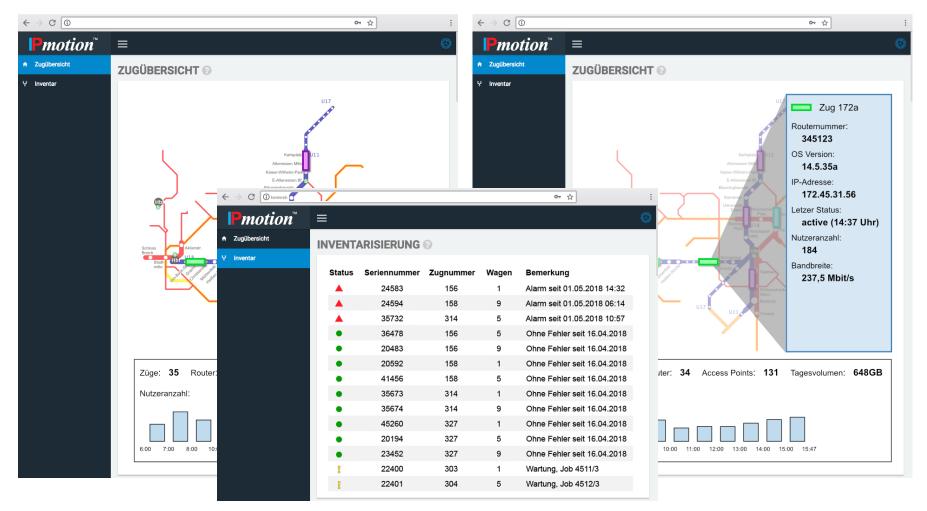


06.05.2021





#### **Device overview**







#### Made easy: Router-Admin

IP	motion™	≡		
A	Dashboard	DASHBOARD		C
Ŷ	Routing	STATUS MONITOR	💉 МАР	*
<	IP Configuration		B 49	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Dial In Settings	System Module 1 Module 2 Module 3	+	Queck
耳	DHCP Configuration	Firmware 1.00.02590-451		
ତ	Dynamic Poweroff	OEM ID none	rod Harbach Ettingshausen	Queckborn
⇔	Modem Settings	Platform ID x86apu2	Flügplatzsiedlung	
24	Port Redirections		Flugplatz Giegen-	51 K 159
۶	Maintenance	MODULE 1	Ressirchen	13
0	Wireless Settings	Sim Card Slot: 100.0k	the state of the s	tingshaŭsen
D	Documentation 🗸	1 90.0k	and the second s	L 3007
		IP Address: 80.0k	19 × 10 19 19 19 19	THE ALE
		10.37.223.149 70.0k		Leaflet   © OpenStreetMap contributors
		Dial Status: 60.0k		
		online 50.0k		
		WAN Connect Type: 40.0k		
		LTE 30.0k		
		Network Operator Name: 20.0k		
		Telekom.de 10.0k		
		Network Registration 0		^
		home received so	ıt	

Slide 7

"Green Transport in Germany and Denmark - Solutions for the Future of Mobility"





# **Electronic ticket with WLAN check in be out**

🖾 🛨 🔍 🖹 🗎 10:34		⊚▼\\\	18:05		0 🗸 🔊	17:55
<b>P</b> motion	<b>P</b> motion	Ð	•••	<b>P</b> motion	4	Ð
	28.11.201	6 - 18:05:23		28.11.2016	- 17:55:54	
	o TIX o cibo ciboTIX-Status	TIX o cit	0010	ciboTIX-Status	τιχο	cibo 1
Benutzername	- Check-in -			<b>Check-in</b> 28.11.2016 - 17:28:29		
Passwort	Dauer - WLAN-Status Verbunden mit ciboTIX			Dauer 27 min, 22 sec WLAN-Status Verbunden mit ciboTIX		
Login						
Version: 1.0.4 N (80)						
	Für Check	<-in klicken				





# Hardware

- System design with cell modems and Wi-Fi PCIe cards
- Intelligent routing WWAN (4G/4.5G/5G prep) / LAN / WLAN
- Data hub for CAN data, e-ticketing
- High isolation software virtualization platform
- Technical Platform
  - Very powerful: AMD G-Series, 1 GHZ system clock, 4 GB RAM
  - vibration- and shock-resistant, housing completely made of aluminium
  - Temperature insensitive, passive and active ventilation concept
  - quickly ready for use, 60 seconds
  - with low power consumption, 11W
  - long operating life and long-term availability, currently EoL of components for 2024
- Antenna connectors in N/(SMA)/FAKRA/QLS/(1.5-3.5), color coded





## Contact



- IPmotion GmbH Dipl.-Jur. (Univ.) Florian Kempff
- Adress: Ludwig-Rinn-Straße 8-16 D-35452 Heuchelheim Germany
  - MailFlorian.Kempff@IPmotion.deTel.+49 641 350 999 10FAX+49 641 350 999 90Mobil+49 178 514 98 77





#### Why do you use Martin Luther on the medal?

- In 1521 Martin Luther is summoned by the Emperor to the Diet of Worms. Luther does not recant "his books" and is taken to Wartburg Castle for safety by the Elector Frederick the Wise.
- Our company is located in Central Hesse. We sometimes feel like the reformer Martin Luther when we critically question everything.
- When we go for a walk in Central Hesse, there are hiking trails everywhere in memory of Martin Luther that point to his way to Worms.
- Lutherweg in Hessen e.V. (lutherweg1521.de)