



# ALLNET

## ALL1681205BUNDLE (2 devices)

### 1200Mbps HomePlug AV2 BUNDLE - Powerline Adapter MIMO

- Up to 1200Mbps powerline data transmission rate
- Supports MIMO
- Compatible with other HomePlug AV technologies
- Secure communication and protect your data by clicking one button
- 2 gigabit ethernet ports
- easy installation

The ALL1681205 adapter is the first ALLNET Powerline adapter on the market with HomePlug AV2 standard with Smartlink 1200Mbps and MIMO support.

The ALLNET ALL 1681205 uses the latest Qualcomm Atheros QCA 7500 / QCA 8334 chipset. It has 2x gigabit ethernet RJ45 ports and it's compliant to the powerline standards IEEE1901 Homeplug AV and greenPHY. This allows easy use with existing Powerline devices from other manufacturers.

High data rates and quality of service (QoS) allow the utilisation of HD multimedia applications. Digital high-speed multimedia home networking throughout the house, including IP-TV services, einschließlich IPTV-Dienste, simultaneous HD video and audio distribution, voice over IP calls, online-gaming.

The ALL1681205 offers a simple plug-and-play networking by pushing a button, a configuration via software is not required.

Art.-Nr. 118597

Note: Product specification is subject to change without notice.

[www.allnet.de](http://www.allnet.de)



The Network Management Key (NMK) with his 128-bit AES hardware-encoding ensures safe, authenticated acces to the logi- cal network and protects the network from hackers.

The new HomePlug AV2 standard enables high efficient data transmission on the electrical cable with technologies like Effi- ent Notching & High Efficiency PHY Protocoll Data Unit (PPDU) Structure.

Element	Spezification
Chipset:	Qualcomm QCA7500 + QCA8334
Standards:	<ul style="list-style-type: none"> <li>• IEEE 1901, IEEE 1905.1 and HomePlug AV Compliant</li> <li>• HomePlug AV2 Compliant</li> <li>• AV2 30MHz and 67MHz MIMO profiles</li> <li>• AV2 30MHz and 67MHz SISO profiles</li> <li>• Power Save mode</li> <li>• Co- existence with HomePlug 1.0/Turbo Nodes</li> <li>• Compliant to ErP 2013 directive</li> <li>• IEEE 802.3 10/100/1000 Ethernet(1200Mbps)</li> </ul>
Brutto data rate powerline:	up to 1200Mbps
Frequencyband:	2MHz to 67,5 MHz
Access-Methode Powerline:	Priority-based CSMA/CA channel access
Quality of Service:	<ul style="list-style-type: none"> <li>• Priority-based CSMA/CA channel access schemes maximize efficiency and throughput</li> <li>• Integrated Quality of Service (QoS) Enhancements</li> <li>• Supports IGMP managed multicast session</li> </ul>
Modulation:	OFDM 4096/1024/256/64/16/8 QAM, QPSK, BPSK, ROBO, und Mini-ROBO Modulation Schema
Powerline Interface:	Type F earthing contact socket /connector (DE), Type C/E (FR)
Network interfaces:	2x RJ45 10/100/1000Mbit
IGMP:	<ul style="list-style-type: none"> <li>• Support IGMP managed multicast sessions</li> <li>• IGMP snooping with multicast to multiple unicast support</li> <li>• IGMP/MLD Adressfiltering</li> </ul>
Nodes/Clients:	max. 15 devices
Security support:	128bit AES Link encryption with key management (aktivated via Simple Connect button)
LED indicators:	Power LED PowerLine Link/ACT status LED 2x Ethernet Link/ACT status LED
Power supply:	Type F earthing contact socket /connector (DE), Type C/E (FR) Switch mode 85VAC to 265VAC



Element	Spezification
Operating Systems:	all TCP/IP operating systems
Operating systems for configuration software:	Windows® XP32bit, Windows® Vista32/64bit, Windows®7 32/64bit
Memory:	SPI Flash: 4 MB DDR3 SDRAM : 128MB
Housing:	synthetic housing
Environment:	Temperature operating: 0 ~ 40 °C Humidity operating: 30% ~ 80% (non condensing) Temperature storage: -25 ~ 70 °C Humidity storage: 30% ~ 95% (non condensing)
Marks:	CE
Dimensions:	120mm x 58mm x 40mm
Weight:	205 g (only device)
Package content:	2x ALLNET ALL1681205 1x RJ45 patch cable 1m 1x CD-ROM with manual & software

## SmartLink Technology

The new ALLNET powerline home next Generation



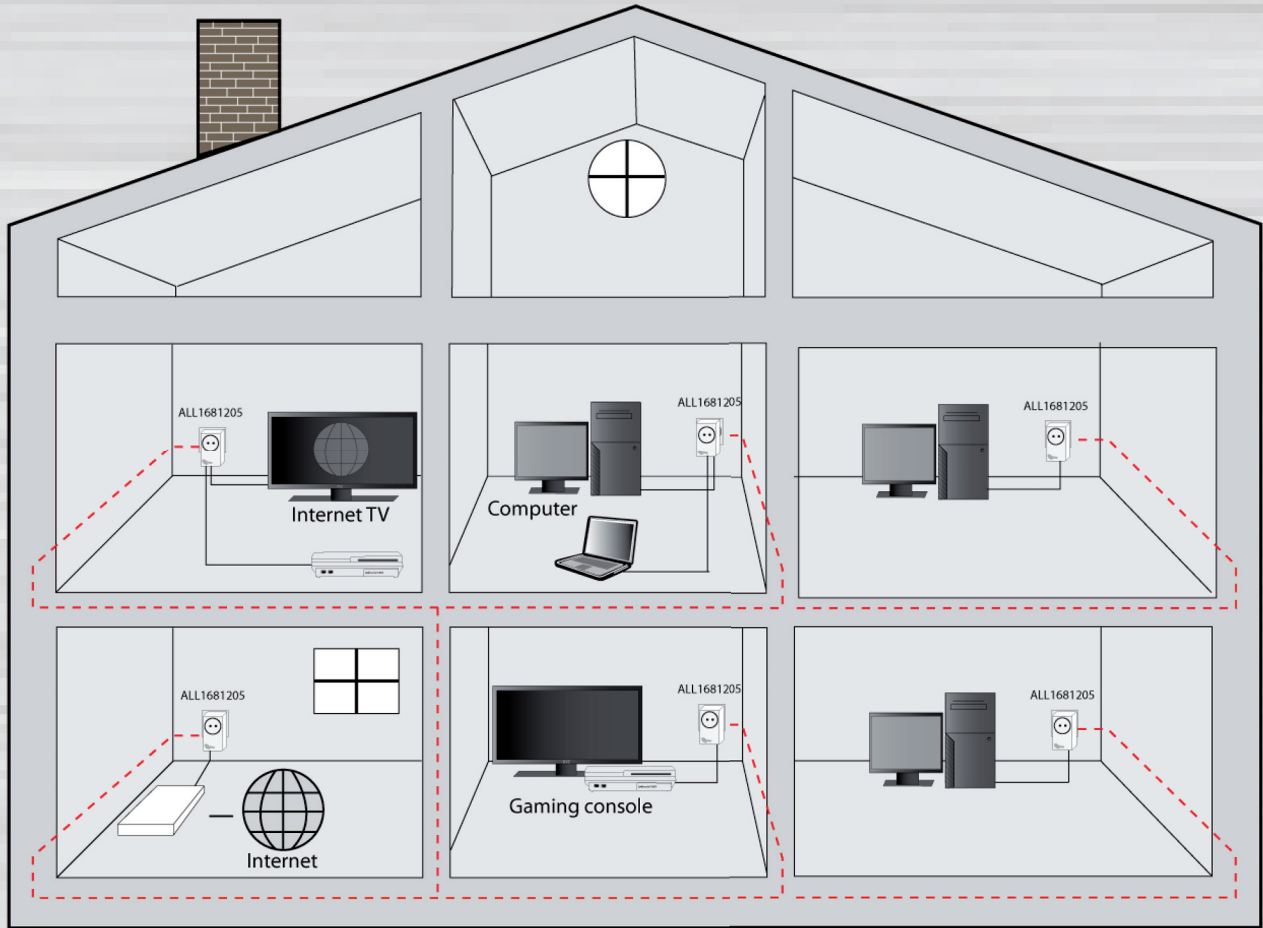
The new smart technology enables a reliable and faster data transmission and therefore delivers a significantly higher speed update for powerline user. Existing powerline adapters only use two out of three wires. SmartLink now uses not only the phase and neutral conductor but also the ground wire for data transmission. Thereby it can fulfill the full performance potential of the electricity line. Besides a considerably speed gain of up to 1200Mbit, the reach and reliability of the powerline signal is also increased. Even isolated rooms in basements or lofts are now connected with a higher data rate.

### Highlights

- Supports MIMO, thereby double the transmission speed compared to 600 Mbit PowerLine
- Powerful internet connection with significantly higher range
- Uses ground next to phase and neutral
- Optimized signal interference on powerline for better transmission
- Automatic selection of best communications method



**Example diagram:**



----- Stromverbindung

<b>accessories</b>	
Article:	Description:
90246	ALLNET Powerline phase coupler 3 phases + LX „passiv“ ALL1688PC
112411	ALLNET Powerline phase coupler/FI-signal bridge 3 phases „ALLNET“ ALL16881PC
23651	ALLNET Powerline phase coupler 3 phases + LX „passiv“ ALL168x
65447	ALLNET Powerline blocking filter 2,0-40 Mhz 16 A
65448	ALLNET Powerline blocking filter 2,0-40 Mhz 25 A
112552	ALLNET Powerline 500Mbit Powerline Bridge Homeplug AV with PoE IEEE802.3af 15,4W ALL1682503
99301	ALLNET Powerline 500Mbit Bridge RJ45 + 300Mbit WiFi AP ALL1682511