

SMART/RG®

Accessories / PL60

HomePlug AV2 Adapter



THE PL60 HOMEPLUG AV2 ADAPTER connects PCs, Set-Top Boxes, gaming consoles, and Smart Televisions via the powerlines in your home. Capable of sustaining bidirectional packet throughput in excess of 500Mbps, high bit-rate content such as IPTV and VoD, as well as latency-sensitive traffic, such as VoIP, in addition to Broadband Internet are supported simultaneously with appropriate levels of Quality of Service. Distances as great as 300 meters are reachable within a single home powerline grid.

The MIMO technology enhances the performance and coverage of the powerline signal by exploiting multiple input, multiple output technology, transferring data across all three electrical wires: line, neutral, and ground. This new technology increases data throughput and is able to reliably deliver multiple carrier-grade HD video streams within a single home. The PL60 provides a filtered AC power socket, reducing interference from equipment such as hair-dryers, mobilephone chargers, etc.

/ FEATURES

- 1 RJ-45 port for Gigabit Ethernet LAN connection
- SmartConnect and Factory Reset buttons
- Tri-color powerline quality indicator LED
- IEEE 1901 and HomePlug AV2.1 compliant

/ BUILT-IN SUPPORT FOR

- MIMO enhanced throughput/coverage
- TR-069 Device Management
- Quality of Service
- Power-Saving Mode

/ SPECIFICATIONS

Standards

IEEE 1901.1/1905.1/HomePlug AV1/AV2.1
Co-existence with HomePlug 1.0
IEEE 802.3 10/100/1000 Ethernet (Auto MDI/MDI-X)

Technology

Modulations:
OFDM 4096/1024/256/64/16/8 QAM, QPSK, BPSK, ROBO
Frequency Band: 2-86MHz
Peak PLC Rate: 1800Mbps
Peak Throughput (TCP/UDP): 550Mbps/600Mbps
Range: Estimated range 300 meters in-wall power lines

Security

128-bit AES hardware encryption

Quality of Service

TDMA channel access with Contention-Free and Contention-Based (CSMA/CA) period Channel Adaption
Four-Level QoS / Eight-level VLAN priority / ToS/CoS Packet Classifier
IGMP/MLD Snooping

Diagnostic and Management

HomePlug AV Management Message Entries (MME)
TR-069 Remote Management

Mechanical

Dimension: 120mm*60mm*38mm (L*W*H)
Weight: 200g

Electrical

Power Requirements:
AC input: US/EU/UK/AU/FR sockets @ 100VAC-240VAC
Power Consumption:
Typical: 3.8 watts
Power-saving mode: Under 0.5 watts

EMC and Safety

FCC Class B / CE mark
UL listed, RoHS & WEEE compliant

Environmental

Efficiency:
European Code of Conduct (CoC) for Energy Efficiency
European Union Energy-using Products (EuP) directive for low power, green energy operation

Temperature:

Standard Operating: 0° to 40°C
Storage: -20° to 70°C

Humidity:

30% to 80% (Non-condensing, Standard Operating)
30% to 95% (Non-condensing, Non-operating)

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