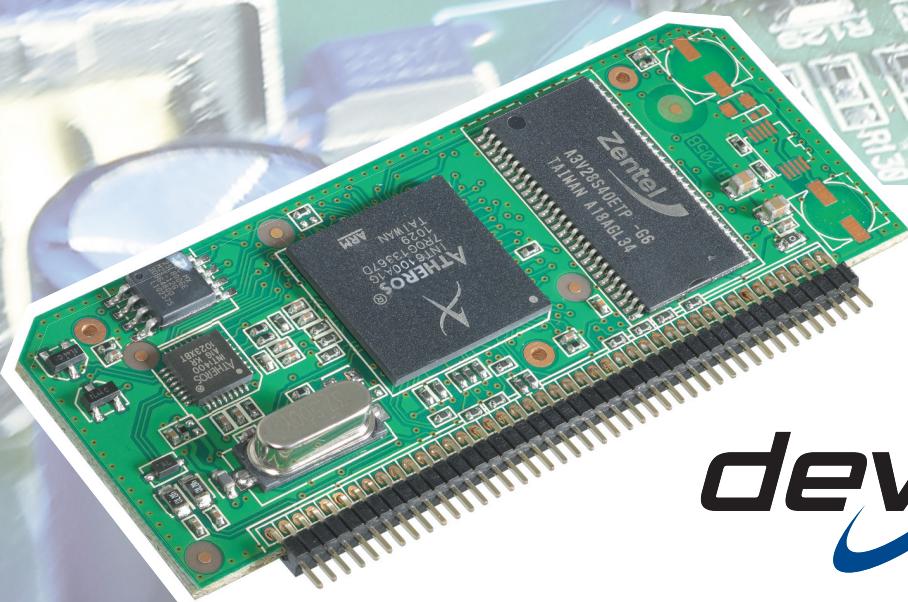


dLAN® module as basis for PLC communication for electronic devices



devolo



Using the power line for data transfer

devolo PLC technology uses the household electrical wiring and the antenna or telephone line for networking, making complicated new wiring unnecessary. dLAN® modules provide a reliable and secure basis for easy integration into electrical devices.



Turnkey PLC integration with devolo as development partner

Applications of dLAN® connection technology are highly versatile and range from industrial and commercial solutions to classic network applications, all the way to home automation and smart metering.

devolo supports device manufacturers and system integrators in integrating dLAN® into their products and provides customised support in all phases of the integration: during the integration, licensing and CE certification. Comprehensive project management support is individually tailored to the customer.

The knowledge transfer also includes handover of the dLAN® SDK, which enables individual configuration of the Powerline module.

Technology from the world market leader

With over 10 million adapters shipped, devolo is the world market leader for Powerline infrastructure technology. No other company in the world has sold more Powerline products. According to Nuremberg, Germany-based market research company GfK, 7 out of 10 Powerline customers currently decide in favour of a devolo product.

Networking buildings using dLAN® PLC technology



Additional applications: Networking wagons, automotive systems, etc.

dLAN® 200 AVmodule 6400

HomePlug AV integration via MII interface – optimised design with Atheros INT 6400 chipset

- Completely integrated HomePlug AV Powerline network controller with integrated MII interface (MAC or PHY mode)
- Data transmission via the electrical wiring, antenna cable or telephone line
- Atheros INT 6400 chipset
- Status information and device configuration via open API (Application Programming Interface)
- Up to 200 Mbps data transmission
- Range: Antenna cable 750 m, two-wire cable 400 m, power line 300 m
- Quality of Service (QoS)
- 128-bit data encryption
- Dimensions: 27.5 mm x 69.5 mm
- Cost-optimised design
- Developed for small-footprint embedded use



| | |
|----------------------------|---|
| Transmission medium | Power line/coaxial cable/two-wire line |
| Transmission rate | up to 200 Mbps |
| Standards | HomePlug AV |
| Protocols | CSMA/CA |
| Transmission method | Asynchronous |
| Modulation | OFDM – 1155 carriers, 1024/256/64-QAM, QPSK, BPSK |
| Range | Coaxial cable: 750 m, Two-wire line: 400 m, Power line: 300 m |
| Security | 128-bit AES data encryption |
| QoS | Analysis and classification of data traffic via: <ul style="list-style-type: none">• VLAN Tag Priority IEEE 802.1 p• Type of Service (ToS)• Traffic type (Unicast/ Multicast/ Broadcast)• IGMP snooping• Differentiated Services (DSCP) |
| Dimensions | 27.5 mm x 70 mm (height x width) |
| Weight | 16g |
| Power consumption | 2.5 W |
| dLAN® Port | Based on terminal device |
| Device interfaces | MII interfaces (MAC or PHY mode) |
| Operating systems | Windows® Vista 32bit/64bit/XP32bit/64bit XT/2000, Linux®, Mac OS® X and all operating systems with TCP/IP support |
| Certifications | CE-compliant in accordance with the technical requirements of all EU countries and Switzerland EN 55022 Class A and B, EN 50412, EN 60950 |



Advantages for device manufacturers



Network Enablement

As networking continues to grow, connecting terminal devices to the network becomes more and more important. We offer you a technology that enables you to make your products network-compatible in a cost-efficient manner.



Flexible media selection

With dLAN® you have different transmission media available as options: power line/antenna cable/two-wire line.



Design-In Support

The devolo development team assists you with the integration process – from integration to the approval of the new product.



HomePlug AV / IEEE 1901

Support of the standard grants a high degree of compatibility within the network.



SDK (Software Development Kit)

For easy module integration and embedding into your system.
(Configuration & monitoring)

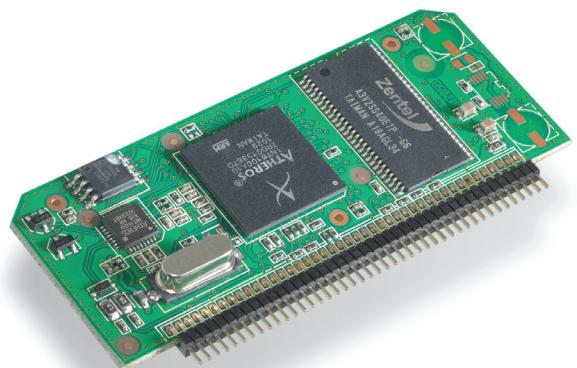


Reliability

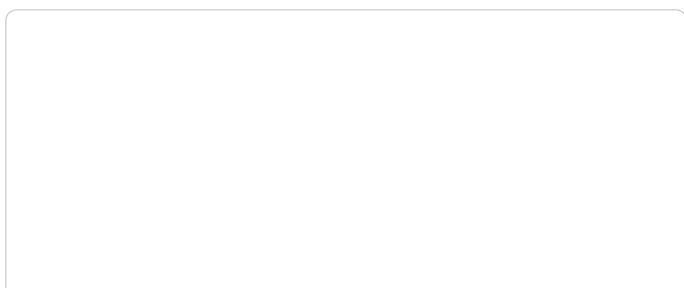
Our products are subjected to continuous quality control.

Would you like to know more about dLAN® module integration?

We'll be glad to serve as your consultant.
Please contact us or our integration partners.



dLAN® module partners for distribution & integration:



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Telefon: +49(0)241-18 279-279 • e-Mail: sales@devolo.de • www.devolo.de

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