

7inova Technology

Wired Solution-Power line Communication

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About Power line Communication

What is Power line Communication?

Power line Communication (PLC) makes use of the existing in-house power network to transfer data. Without complex wiring, it lets you implement a network without complicated and expensive LAN cabling.

Powerline Communication Use:

They have been extended to other media like phone lines, coax cables, DC power lines or even plastic optical fibers. Furthermore, they have been extended outdoor to applications like security surveillance, smart grid, building automation, robotics, video intercoms, underwater UAVs, etc.

When is Powerline the best solution?

it is a very ideal alternative solution for network connection and transmission problems in scenarios where such as wireless and PoE cannot be covered.

Support Various Transmission Media

***AC or DC Power Line**

***Twisted pair or phone line**

***Coaxial cable**

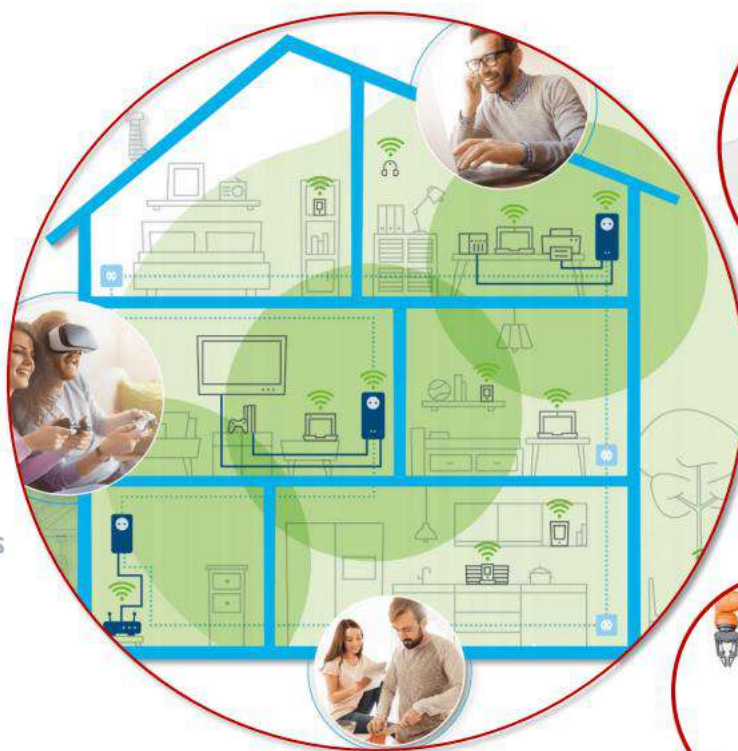
Solve Network Pain Points

- **Health and environmental protection, solve the problem of strong power radiation of WiFi**
- **Real-time communication problems caused by long delay;**
- **Problems with neighbor networks interference**
- **Household electrical interference problem**

Application

家庭互联

- Wi-Fi extenders
- IPTV delivery
- Home security
- IoT



宽带接入

- MDU broadband
- Public WiFi
- FTTdp



智能电网

- Smart Meters
- Distribution Automation
- Smart Lighting



工业领域

- Factory Automation
- Transportation
- Security



About 7inova Technology

Overview

Rooting ourselves in the powerline industry, 7INOVA has been doing this powerline module&adapter works and benefiting industrial customer group for years. Since its establishment in 2011, 7INOVA focuses on doing one thing and only one thing: Solve network transmission problem in specific application scenarios based on power line carrier communication technology. The company is PLC-oriented and takes a diversified development path. 7INOVA provides customization services of powerline products for domestic&overseas system industry manufacturers, brand owners, as well as distributors and wholesalers.

- Product Development, Custom Design, Application Support
- Core team engineers have worked together in powerline communications for over 10 years
- Be good at understanding the needs of user scenarios, provide customers with targeted product planning, and reasonably reduce demand costs by more than 30%
- Actively participate in product development and design of multiple protocols (Homeplug AV and G.hn) and multiple chip solutions
- Standards: Homeplug AV, IEEE, G.hn, HomeGrid Forum, etc
- Lean production: The manufacture base has all imported production equipment, mature production and management technology



Our Mission

Based on PLC technology, to be focused, innovative and committed to push forward smart life of IoE (Internet of Everything)

Our Vision

Create maximum value for our customers with products of the most possible affordable cost and reliable quality.

Our Philosophy

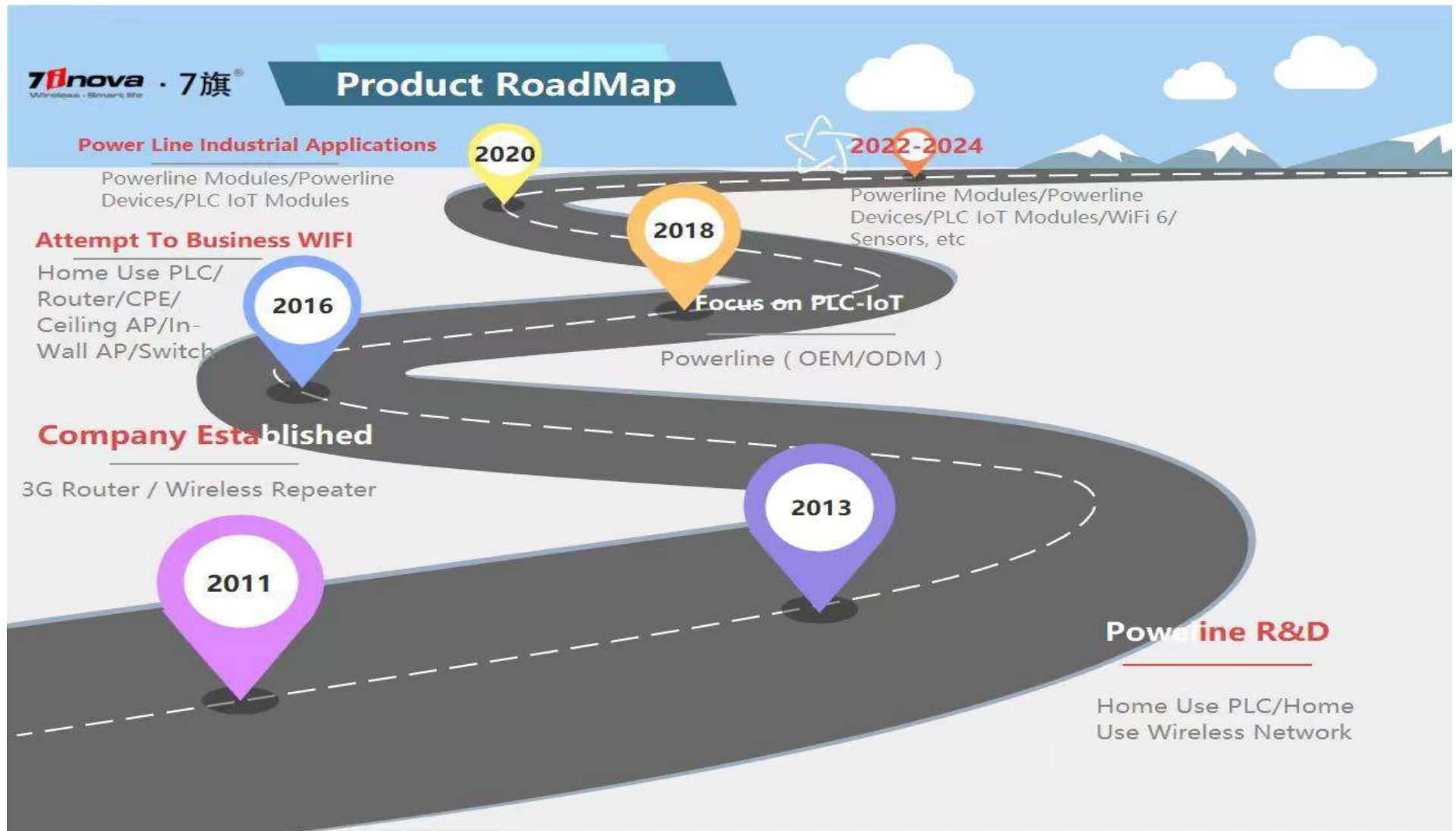
Always Tailored ODM service to Customer

‘Ease of Use’ & ‘Durability’

Quality Is Our Culture

Service Is Our Soul

Product Road Map



Work with Customization

Serving powerline industry for years, we in-depth understand the application requirements of power line solutions in various industries, quickly and accurately provide customers with complete customized solutions, offer technical support from program selection to hardware design, software driver support or function development, until finished product performance debugging.

- High-quality design for first-time success
- Just-in-time development and prototype delivery
- Cost-effective bulk product, every unit is thoroughly tested

1

In-depth communication

Through in-depth communication with customer, know customer's specific demands and application, define and confirm the complete specification.

2

Selection & Development

Designing ID, Hardware, software according to agreed specification, deliver complete prototype for validation.

3

Validate Prototype

Co-work with customer to validate prototype in their field application, address and solve the issues until fully validation.

4

Final Mass Production

Assist customer do locally required certify, successfully mass produce and deliver to formal use.

Products Currently In Production

Powerline Modules: Designed for embedded applications, secure and high-speed data transfer, reduce customer's time-to-market. Our modules can be widely used in elevators, robots, low-power doorbells, cameras, image/video transmission, security monitoring, Green Power Vehicle, power grid management ect.

7MP1200---Homeplug AV2 1300Mbps Gigabit Powerline Module (size: 102*59mm)



- Support homePlug AV, HomePlug AV2, IEEE1901, IEEE1905.1 up to 1300mbps speed, MIMO work mode. An idea option for high speed transmission required application;
- Support Max 64nodes with gigabit ethernet port.
- DC12V input, Embedded Design

7P1200---Homeplug AV2 1300Mbps Gigabit Powerline Module (size: 62*62mm)



- Support homePlug AV, HomePlug AV2, IEEE1901, IEEE1905.1 up to 1300mbps speed, MIMO work mode. An idea option for high speed transmission required application
- Support Max 64nodes with gigabit ethernet port
- AC100-220V input, PLC and power board seperate design

7MP1000---Homeplug AV2 1000Mbps Gigabit Powerline Module (size: 77*57mm)



- Support homePlug AV, HomePlug AV2, IEEE1901, IEEE1905.1 up to 1000Mbps speed, SISO work mode
- Support Max 14 nodes with gigabit ethernet port
- DC12V input

7ZP250---Homeplug AV500 Powerline Module (size: 72*43.5mm)



- 500Mbps physical powerline speed
- Support Max 14 nodes with 10/100Mbps ethernet port
- DC24V input

7M150---Homeplug AV500 Powerline Module (size: 45*45mm)



- 500Mbps physical powerline speed, rj45 pin design.
- Support Max14nodes
- DC12V input

7P150---Homeplug AV500 Powerline Module (size: 74*45mm)



- 500Mbps physical powerline speed
- Support Max14nodes with 10/100Mbps ethernet port
- AC110-220V input

7P500---Homeplug AV500 Powerline Module (size: 62*53mm)



- 500Mbps physical powerline speed
- Support Max14nodes with 10/100Mbps ethernet port
- AC110-220V input

7M120---Homeplug AV200 Powerline Module (size: 38*38mm)



- 200Mbps physical powerline speed, rj45 pin design.
- Support Max 8nodes with embedded design
- DC3.3V input with PLC filtering, over current and lightning protection

7TM120---Homeplug AV200 Powerline Module (size: 38*36.4mm)



- 200Mbps physical powerline speed, rj45 pin design.
- Support Max 8nodes with embedded design
- DC12V input with PLC filtering, over current and lightning protection

7HC120M---Homeplug AV200 Powerline Module (size: 66*57mm)



- 200Mbps physical powerline speed, rj45 design.
- Support Max 8nodes with embedded design
- DC3.3V input with PLC filtering, over current and lightning protection

7LP120---Homeplug AV200 Powerline Module (size: 45*38mm)



- 200Mbps physical powerline speed, rj45 pin design.
- Support Max 8nodes with embedded design
- DC3.3V input with PLC filtering, over current and lightning protection
- 8mm height, ultra thin design for embedded design

7P120---Homeplug AV200 Powerline Module (size: 74*45mm)



- 200Mbps physical powerline speed
- Support Max8 nodes with 10/100Mbps ethernet port
- AC110-220V input

Ready-to-use devices: Our ready to use powerline transmission device for industry application is an instantly available device for industry customer, or assist customer to validate in specific application before starting a new oem project.

7ZX150-AV500 Waterproof Dedicated Line-Transmit Powerline Adapter



its main chipset adopts Atheros design. It has the characteristics of high integration, dedicated line transmission, disconnection with other PLC equipment outside this group, no mutual interference, etc. The outer box has an IP65 protection level, can provide up to 500Mbps powerline transmission rate, stable and with reliable performance.

7HC120-AV200 Ethernet over Coaxial Extender



An Ethernet over Coaxial Adapter/Extender, transmits HD videos and high-speed data signals, transfers IP HD network signals over all kinds of coaxial cables. The ethernet extension over coaxial cables with maximum transmission distance is up to 2km.

7HT120-AV200 Ethernet over Twisted-Pair (UTP) Adapter/Extender



An ethernet over Twisted-Pair (UTP) Adapter/Extender, integrates twisted-pair interface and RJ45 connector, completely plug & play, transmits HD videos and high-speed data signals, transfers IP HD network signals over all kinds of twisted-pair cables. (UTP/STP/2-Wire/Ethernet cable).

7HP200- AV500 Ethernet Powerline Adapter With DC12V Output



7HP200 is a Y cable Ethernet powerline model. It holds HomePlug AV standard, providing up to 500Mbps bandwidth over home AC wiring. It is widely used in security and surveillance product market, its function is help to bring homeplug powerline network onto an Ethernet device such as a set top box, router, or IP camera. users no need to pull long Ethernet cables from one device to another.

7HP100-PoE AV200 Ethernet Powerline Adapter with PoE Output



This is an economic type PoE powerline designed for security market, adds PoE function on our 7HP100 design, make use of existing household power supply to connects computers and other IP-enabled devices, and simultaneously supplies the PoE compatible devices such as Access Points / camera / LED information display / LED -Counter / PoE LED lamps etc. Built-in IEEE802.3af/at compliant PoE Injector to provide 48V classification power via CAT5E / CAT6.

Home-use powerline adapter: Our plug and play powerline adapters are suitable for home DIY network building and extending. It is ideal if the existing Internet signal does not sufficiently supply all living areas. You can easily have internet access wherever there is an outlet.

Private label service is available.

7HP1200-HomePlug AV2 1200 Pass through Powerline Adapter Kit



The 7HP1200 connects your network-compatible devices at speeds up to 1,200Mbps for advanced data transmission and lightning-fast internet access. Its Gigabit LAN port ensures a stable connection with significantly longer range than before. It offers an additional device or power bar to be connected to the adapter as though it were a normal wall socket.

7HP500-HomePlug AV500 Pass through Powerline Adapter Kit



7HP500 is one of the easiest ways to create an integrated network using your existing electrical wiring. You can turn your home's electrical wiring into a high speed and secure network. Additionally, the convenient design makes it easy to place without losing the use of your power outlet.

Wallmount AV500 Ethernet Powerline Adapter Kit Pack



Just connect the 7HP150 to PC by Ethernet cable, and plug it into the power outlet. you can enjoy your Ethernet life. 7HP150 provides you with stable high speeds of up to 500Mbps,

Wallmount AV200 Ethernet Powerline Adapter Kit Pack



Just connect the 7HP120 to PC by Ethernet cable, and plug it into the power outlet. you can enjoy your Ethernet life. 7HP120 provides you with stable high speeds of up to 200Mbps,

Our Certification



7HP120 EMC



7HP120 LVD



7HP120 ROHS



7HP150 EMC (1)



7HP150 LVD



7HP150 ROHS



7HP1200 EMC



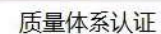
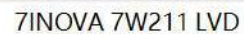
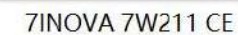
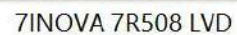
7hp1200 LVD



7hp1200 ROHS



7INOVA 7R508 CE



Technical and Business Support

Senior R&D Team

- 7inova has a R&D and technical support team that has been deeply involved in the power line communication product industry for many years, improving full support to the end.
- The R&D core team members have more than 10 years of experience in the field of power line communication.

Pay close attention to the market, quickly upgrade products to meet changes in market demand, and manage demand, etc.

Mature products and platforms

- A variety of product solutions; Quality has been verified by a large number of domestic and foreign market shipments.
- Complete product specifications range with rich forms, suitable for different applications of customers in various industries.

Business Support

- Competitive price
- Based on forecast, provide very good supply support