1. WHAT IS POWERLINE NETWORKING?
Powerline Networking is the ability to access the internet from the power points within your home without the need for complicated and expensive rewiring.

2. HOW DOES POWERLINE TECHNOLOGY WORK?
Powerline networking uses the existing electrical wiring in your house to carry the Internet signal. The power and data that run through the power lines do not interfere with each other and can co-exist. That means that every power socket becomes a potential Internet connection point.

3. WHAT ARE THE ADVANTAGES OF POWERLINE?
The main advantages of Powerline networking include the following:

- No new wiring necessary
- Plug and play. Simply connect and begin to use
- Reliable connection
- Perfect for devices/users that are not mobile – gaming consoles, desktop computers, IPTV etc
4. **DO POWERLINE ADAPTERS WORK OVER MULTI-PHASE POWER CIRCUITS?**
   Yes. Powerline Adapters work in three phase and extensive field tests have been conducted which demonstrate that Powerline networking across multi-phase power can be achieved.

5. **DO POWERLINE ADAPTERS WORK OVER DIFFERENT CIRCUITS IN THE HOUSE?**
   If all circuit breakers are connected to the main switch then Powerline adapters can communicate across different circuits. If circuit breakers are isolated then the adapters will not be able to communicate across circuits.

6. **WHAT FACTORS AFFECT THE PERFORMANCE OF POWERLINE ADAPTERS?**
   Some factors that can impact on the performance of your Powerline network can include wiring quality, the signal path and other electrical devices that are being used on the same line. While wiring quality and signal path are uncontrollable and will vary in every different environment, “noise” created by other electrical devices is somewhat controllable and can therefore be managed.

7. **CAN I USE 200MBPS POWERLINE ADAPTERS WITH OTHER POWERLINE VERSIONS?**
   All Powerline versions can co-exist with each other. 200Mbps Powerline Adapters, however, are not backward compatible with earlier (85Mbps) Powerline releases. If you will use different versions of 200Mbps Powerline Adapters in a single network, you need to use the Powerline Utility software to create a Private Network Name for all devices. Unlike the new version of 200Mbps Powerline, older versions do not feature the Simple Connect button which enables the device to create a common Private Network Name without using the software.

8. **DO I NEED AN AUTOMATIC VOLTAGE REGULATOR (AVR) FOR POWERLINE NETWORKING?**
   No. Powerline can operate in an environment using 100-240V.

9. **WILL NETCOMM POWERLINE COEXIST WITH OTHER BRANDS OF POWERLINE?**
   Yes. Netcomm 200Mbps will coexist with other Home Plug AV Certified adaptors and devices. NetComm Powerline products are made to HomePlug AV specifications to ensure compatibility.

10. **WHICH OPERATING SYSTEM (OS) IS COMPATIBLE WITH 200MBPS POWERLINE?**
    Powerline is operating system independent. However, the Powerline Utility requires a Windows operating system (98SE/ME/2000/XP/Vista/7) with the .NET Framework installed.

11. **HOW DIFFICULT IS IT TO SET UP A POWERLINE NETWORK?**
    Powerline Adapters are plug and play devices. Connect to an Ethernet device, plug it to a wall socket, and it is ready to use. Even the most inexperienced user can set up the network with ease. Installing the Powerline Utility software is only needed if you intend to manually change the Private Network Name or view the connection rate.

12. **HOW MANY DEVICES DO I NEED TO CREATE A NETWORK?**
    At least two devices are needed to create a Powerline network.

13. **HOW MANY POWERLINE ADAPTERS CAN OPERATE IN ONE HOUSE?**
    Up to 15 devices can be used within the household.

14. **WHAT IS THE MAXIMUM RANGE OF A POWERLINE NETWORK?**
    The maximum range is 200 meters.

15. **WHAT IS THE PUSH TO CONNECT BUTTON?**
    The push to connect button allows you to set up your network simply by pushing a button. If users ever want to reset their network or add to their network then they need to use the push to connect button as detailed in the Quick Start Guide.
16. WHAT IS AC PASS-THROUGH?
AC Pass-through refers to the power socket that is built into the front of these adapters. This female power socket allows users to connect other electrical devices to the same wall outlet, through the Powerline Adapter. This not only guarantees best Powerline performance by enabling users to connect directly into the wall, but also results in no restrictions on how many electrical devices can be connected to one outlet.

17. DOES 200MBPS POWERLINE HAVE A SECURITY MECHANISM?
Yes. 200Mbps Powerline uses 128-bit AES encryption.

18. ARE GIGABIT ETHERNET ADAPTERS REQUIRED FOR USE WITH 200MBPS POWERLINE ADAPTERS?
No. Under ideal conditions, Powerline has a physical gross data rate of up to 200 Mbps. The effective net data rate is somewhat lower. A 100 Mbps Ethernet adapter is therefore adequate in most cases.

19. CAN THESE NETCOMM POWERLINE ADAPTERS HANDLE HI-DEFINITION STREAMING/IPTV?
Powerline networking is the ideal solution. In most environments the data rates will be easily sufficient to handle this application. Powerline networking is a low latency and low jitter application compared to wireless. Powerline adapters have also been thoroughly tested to demonstrate that they work effortlessly with streaming HD content over IPTV.

20. WHAT DATA TRANSFER RATES DO I NEED FOR HIGH DEFINITION TV?
A variety of HDTV resolutions are available. The following are the most common resolutions opposite the required transfer rate: 720p, mpeg2: 09-10 Mbps, 720p, mpeg4: 06-08 Mbps, 1080i, mpeg2: 12-15 Mbps, 1080i, mpeg4: 08-10 Mbps

21. DOES THE TECHNOLOGY SUPPORT VIDEO STREAMS (IP-TV)?
Yes.

22. HOW DOES 200MBPS POWERLINE ACHIEVE A HIGHER BANDWIDTH THAN EARLIER POWERLINE RELEASES?
200Mbps Powerline complies with the HomePlug AV standard. It achieves higher data throughput by using a broader frequency spectrum (2-30 MHz rather than 4-21 MHz), by using a better access method (Time Division Multiple Access rather than Carrier Sense Multiple Access/ Collision Detection), and by using a better processor with a greater bitload per Hz.

23. IS 200MBPS POWERLINE SUITABLE FOR TRIPLE PLAY I.E. USE OF DATA, VOICE, AND VIDEO APPLICATIONS SIMULTANEOUSLY?
Yes, triple play is supported.

24. IF ONE POWERLINE ADAPTER IS CONNECTED TO A LAN SWITCH, IS IT POSSIBLE FOR OTHER COMPUTERS IN THE SWITCH TO COMMUNICATE WITH OTHER POWERLINE DEVICES?
Yes.
25. CAN MY NEIGHBOURS ACCESS MY POWERLINE NETWORK?
   No. Your electric meter prevents any signal from going outside your household. However, we strongly suggest that you create your own personalized Private Network Name to prevent unauthorized access into your network.

26. HOW MUCH IS THE POWER CONSUMPTION OF 200MBPS POWERLINE ON A 230-VOLT POWER SUPPLY?
   Powerline has a power consumption of 3.8 watts when in use.

27. CAN I USE POWERLINE ADAPTERS TO CONNECT COMPUTERS LOCATED IN DIFFERENT FLOORS OF THE BUILDING?
   Yes, as long as the electric wires are connected and do not exceed 200 meters.

28. CAN I USE POWERLINE ADAPTERS IN AN OLD HOUSE WITH OLD POWER SUPPLY LINES (WITHOUT SEPARATED GROUND WIRE)?
   Yes. However, performance may be affected because of the quality of the wires.

29. CAN I PLUG POWERLINE ADAPTERS INTO A MULTIPLE SOCKET SWITCH OR DO I HAVE TO PLUG DIRECTLY TO THE WALL SOCKET?
   You can plug Powerline Adapters into a multiple socket switch. However, we strongly advise to plug it directly to a wall socket to achieve optimal performance.

30. DO I NEED ELECTRICAL GROUNDING FOR THE DEVICE?
   Powerline networks do not require electrical grounding.

31. AFTER A BLACKOUT, WILL THE POWERLINE ADAPTERS SWITCH ON AUTOMATICALLY?
   Yes. If you experience connection issues, unplug the device and plug it back in.

32. WHAT WILL HAPPEN IF I CONNECT TWO POWERLINE ADAPTERS TO THE SAME ROUTER?
   This will cause collision and slow down the network traffic. To prevent collision, you need to assign different Private Network Names on each Adapter.