Main.net's Power Line Ultimate System (PLUS) has a unique concept that provides a highly cost-effective telecommunication solution for high-speed transmissions over low and medium voltage power lines.

It is a multi-service platform that enables power utilities and telecom operators to utilize their communication backbone and electric grid infrastructure to offer their end users a wide range of high-speed telecommunication services through any electrical outlet.

By using PLUS, power utilities provide 24-hours, always-on high speed Internet connection from any electrical outlet in their customers' home, as well as home networking and other services.

The PLUS system can easily be integrated into any communications infrastructure (e.g. SDH/ATM/IP). It consists of three types of sub-categories:

1. Access units (PLUS backbone) - installed by the power utility along the street's power lines.
2. In-home units - installed by the end users at their home or office ('Plug & Play').
3. Network Management and Control - installed at the utility's regional control center.

In-home units

NtPLUS - the NtPLUS (Network Termination) is modem that provides Internet connection between the electrical outlet and the PC (or any other peripheral). The units come with a standard connector to the PC (USB and 10BaseT) Several units can be plugged in to create a home network.

Electrical Requirements
Input Voltage   80 – 265 VAC
Input Frequency   48 – 63 Hz

Interface
PC or peripheral   10BaseT, USB

Packaging Material
ABS+PC (Polycarbonate) UL 94-VO

Dimensions
Height - 54.8mm (2.16 ")
Width – 170mm (6.7 ")
Height – 222mm (8.74 ")

Weight
NtPLUS - 0.8 Kg


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  ┌─────────────┐       ┌─────────────┐
  │ Filters &   │       │ Power Supply│
  │ Analog F.E  │       │             │
  └─────────────┘       │             │
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  ┌─────────────┐         ↓   ↓   ↓
  │ Power Line  │
  │ Modem       │
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  ┌──────────────────────────────────┐
  │ Communication Processor          │
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  ┌──────────┐   ┌──────────┐
  │ USB      │   │ Ethernet │
  │ Interface│   │ Interface│
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