

XPAS PLC Access System

24Mbps Broadband PLC System for In-Building / Last-Mile Solutions



Welcome to the world of Powerline Communication

Powerline Communication (PLC) uses the existing powerline network - the largest global network by far - as a medium for data transmission. PLC can provide a simplified and cost effective last-mile delivery of data services over the existing powerline infrastructure.

XPAS PLC System for In-Building / Last-Mile Solutions

Xeline's PLC Access System supports data rates of up to 24Mbps and provides Intelligent Routing functions to provide more robust and reliable communication performance in even harsh powerline conditions. The system supports virtually unlimited number of nodes per physical network. Automatic network setup, dynamic routing, automatic recovery from link disconnections ensures stable services even in harsh and unfavorable powerline conditions.

Xeline's PLC System consists of products based on the optimized XPLC23 PLC chip. With its compact and sleek designs, robust and dynamic performance, scaleable system integration and flexibility, and easier to install features, Xeline's PLC System will open a new era for networking residential and commercial buildings.

Xeline's PLC systems also support fully remote and automatic device authorization, firmware upgrade, monitoring, and trouble shooting functions through EMS (Element Management System) to provide the most optimal solution for commercial deployment of PLC technology.

Everywhere & Anywhere

- Uses existing powerline infrastructure
- Broadband connection available from every power outlet
- Virtually unlimited number of nodes per network
- Connect entire building networks via PLC
- No need for complicated and expensive cabling

Communication Reliability

- Automatic path change for dynamic cell formation
- Automatic recovery from link disconnection
- Adaptive bit loading per each subchannels
- Fast adaptation in time-varying channels
- RTS/CTS for hidden node detection

Easy Installation & Remote Management

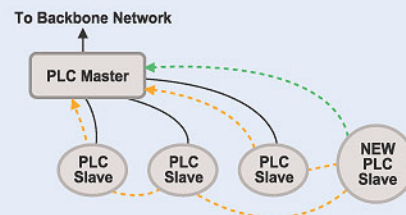
- Plug & Play installation for the end-user
- No manual configuration needed.
- Automatic network setup
- Remote monitoring & firmware upgrade
- Patented magnetic coupling method

Security and Network Management

- Supports blocking of inter-Slave communication
- 56bit DES for node-based encryption
- EMS based on SNMP
- Programmable forbidden bands

Intelligent Routing Function

When powered, the PLC Slaves will automatically search for the most optimal route to the PLC Master (directly or via other Slaves/Repeaters). When the powerline channel conditions change, the PLC Slaves will automatically find the new optimal path so that communication will remain reliable and stable, regardless of the channel environment.



Product Features



3-Phase PLC Master Unit for In-Building Solutions (MTP-230)

The 3-Phase Master Unit is specially designed to couple signals on multiphase powerlines. The Master is the access point to the backhaul network and can support up to 128 Slaves per Master Unit. Additional Masters can be used as Repeaters to increase communication reliability or extend coverage in the PLC network.



3-Phase Extended PLC Master Unit for Last-Mile Solutions (XM-230)

The 3-Phase Extended PLC Master Unit is specially designed for one-stop installation in outdoor last-mile solutions. The Extended Master combines the Master Unit, EMS Unit, and 3-Phase Coupler and is encased in a small weatherproof cabinet for easy installation.



PLC Slave Unit (SU-230)

The Slave Unit is a plug type customer premise equipment (CPE). The plug type Slave is designed to enable the end-user to instantly access the Internet or home network from any electrical outlet in the home with Plug & Play installation. The Slave can also dynamically function as a Repeater without manual configuration.



PLC Last-Mile System Line Up & Specifications

XM-230 3-Phase PLC Master Unit for Last-Mile Systems



Master Co-existence	Unlimited
No. of Slaves	Up to 128 Slaves per Master Unit
EMS	SNMP Agent embedded
Interface	WAN 1 port LAN 3 ports Console port RS-232 2 ports PLC 3-phase coupling (AC powerline) BNC connector for MV coupling (optional) PLC signal for LV magnetic coupling (optional)
LED	PWR/WAN/LAN1/LAN2/LAN3
Power Supply	90V ~ 240V (50Hz or 60Hz)

SU-230 PLC Slave Unit



Supported O/S	Windows 98 SE, ME, 2000, XP
PC requirements	Network Interface Card (NIC)
Interface	10/100 base-T Ethernet PLC signal coupling (AC powerline)
LED	PWR/ACT/LINK
Supply Voltage	90V ~ 240V (50Hz or 60Hz)
Dimensions	115 x 62 x 32mm

PLC In-Building System Line Up & Specifications

MTP-230 3-Phase PLC Master Unit for In-Building Systems



Master Co-existence	Unlimited
No. of Slaves	Up to 128 Slaves per Master Unit
Interface	LAN 1 port RJ-11: PLC signal (3 Phase coupling)
LED	PWR/ACT/SYNC/LAN
Power Supply	90V ~ 240V (50Hz or 60Hz)
Dimensions	150 x 97 x 33mm (W x D x H)

SU-230 PLC Slave Unit



Supported O/S	Windows 98 SE, ME, 2000, XP
PC requirements	Network Interface Card (NIC)
Interface	10/100 base-T Ethernet PLC signal coupling (AC powerline)
LED	PWR/ACT/LINK
Supply Voltage	90V ~ 240V (50Hz or 60Hz)
Dimensions	115 x 62 x 32mm

CU-230 3-Phase PLC Coupler



Interface	RJ-11 #1: Connection to TX1, RX of Master RJ-11 #2: Connection to TX2, TX3 of Master
Terminal Block	8-pin terminal for 3phase coupling
Dimensions	97 x 50 x 34mm (W x D x H)
Coupling Method	Magnetic / Capacitive coupling supported

EU-230 PLC EMS Unit



Protocol	SNMP V1/V2
Monitoring	Network status / Remote control
Interface	10/100 base-T (backbone) RS-232 (console port)
No. of Nodes	Up to 254 PLC units

