

VersatileWire™ Applications Training



Power Line Infrastructure Networking Solution



Remote IP Video Security/Surveillance Solution



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VersatileWire™ Statement

- VersatileWire™ provides a cost effective ubiquitous long range Ethernet networking solutions utilizing the existing in-premises infrastructure such as Electrical Power Line, Telephone Line, Coaxial Cables, etc.



VersatileWire™ Series

APL4200-200 UltraSpeed™ UPS-able Quad PowerLine NetBridge™



APL2400-200 UltraSpeed™ CoaxLine Quad Ethernet NetBridge™



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VersatileWire™ Series Accessories

ACX1000 VersatileWire™ Adapter



ADK4200 Inductive Coupler Kit



2-Prong Type



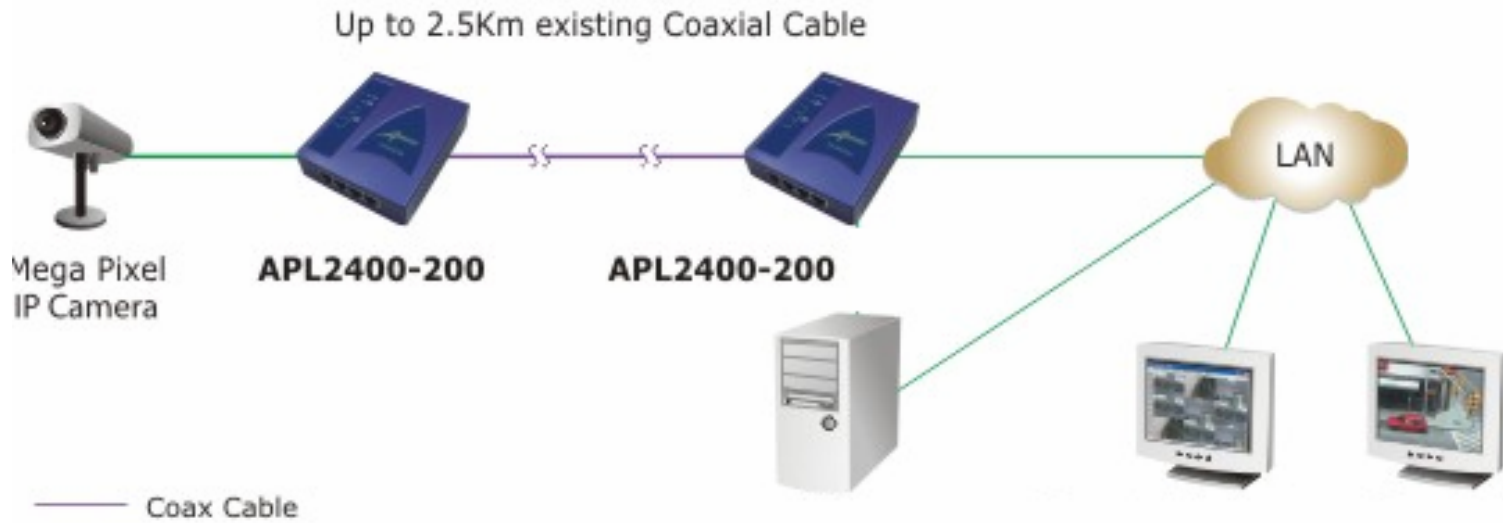
Coaxial Type



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APL2400 UltraSpeed™ CoaxLine NetBridge™



- Innovative - Up to 200Mbps speed over existing coaxial cables
- Adaptive - No RF interference to the network
- Extensive - At least 2000 meters connection range

Useful Accessories While Installing



F T-Adapter



BNC-F Adapter

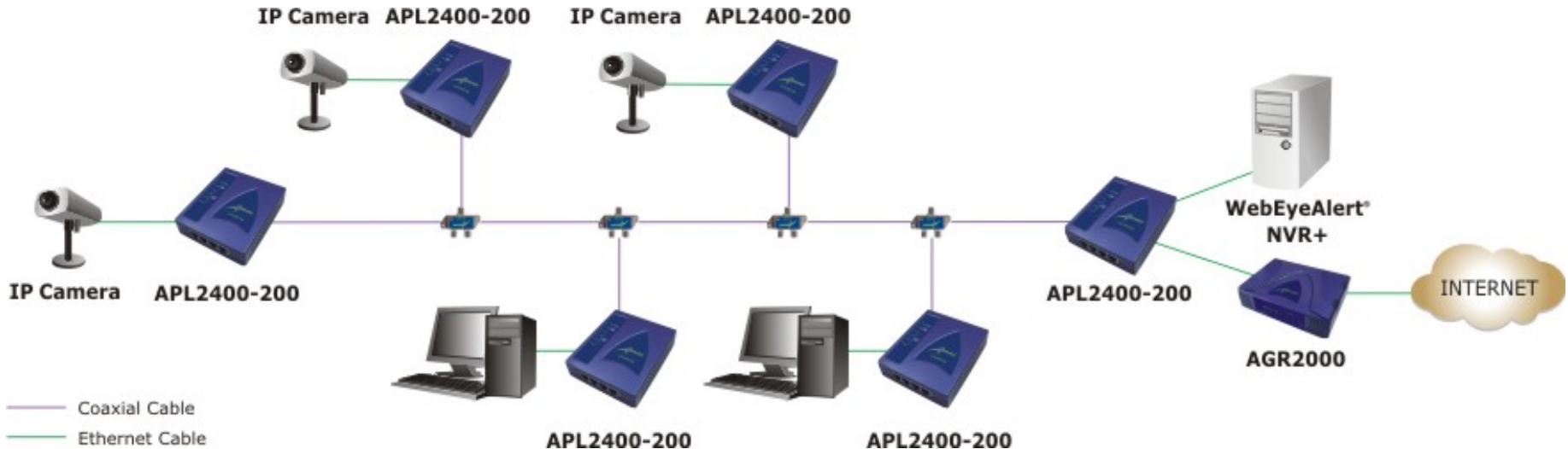


RF Filter

Use the accessories to accomplish the need of your project while installing the cabling. VersatileWire™ series products equip “Smart Route” capability to perform the stable network connectivity through complex net topology .



Connection Diagram



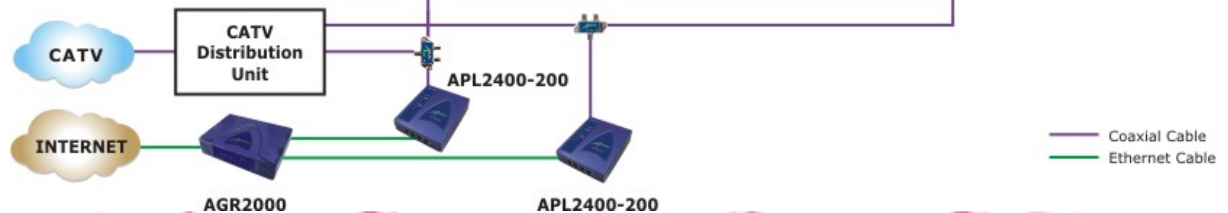
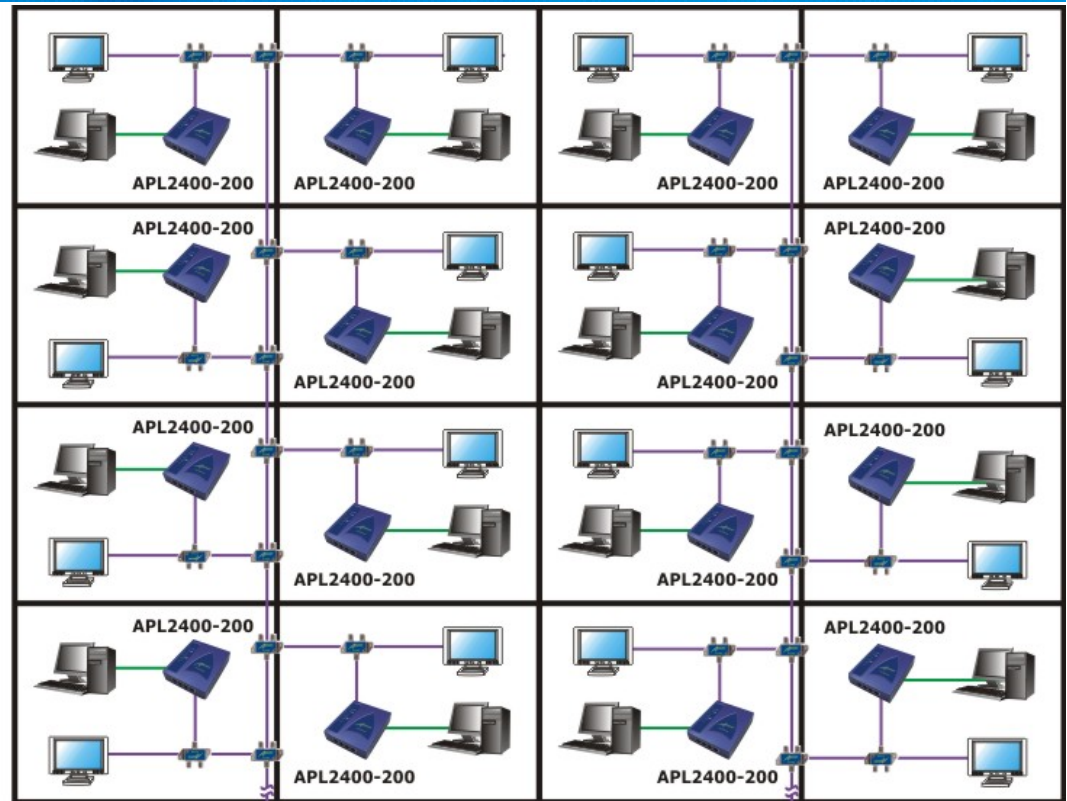
APL2400 turns any existing analog video cable into a high-speed Ethernet connection. This allows multiple network cameras to replace a single analog CCTV camera, without installing any new cable. Additionally, you'll extend the coverage of the surveillance system by simply branching the cabling with coaxial cable splitters.



Hotel with CATV System

The existing cable system in the apartment, hotel, hospital, dormitory, etc. can be upgraded with VersatileWire™ to enable the Internet, IPTV, VoIP service.

Connect less than sixteen NetBridge™ per power line segment domain to make sure the network quality.

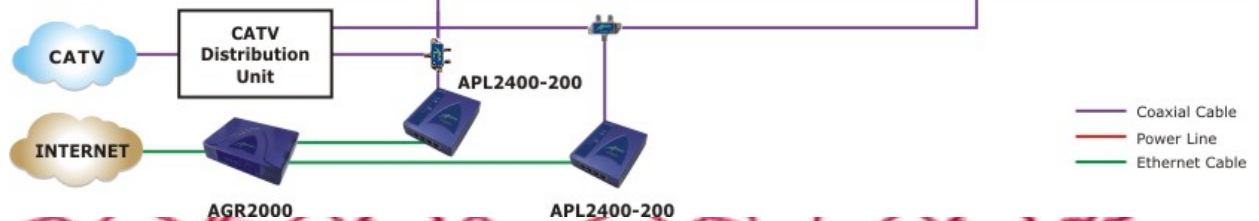
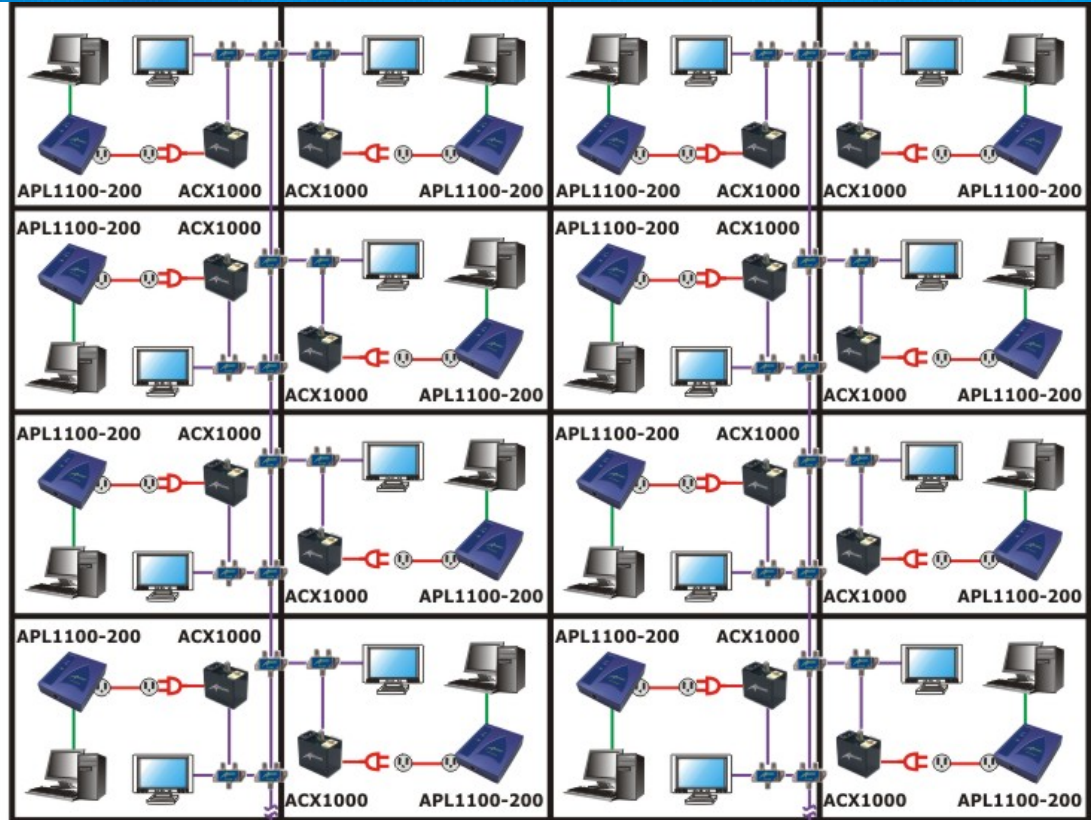


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Cost Effective Hotel Solution With ACX1000

In the hotel or similar applications, Install ACX1000 in every tenants instead of APL2400 will transform the cable system become a flexible network. The guests receive an APL1100 NetBridge or install it for them when they check in or when they demand the Internet service.



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Cable System Application Notes

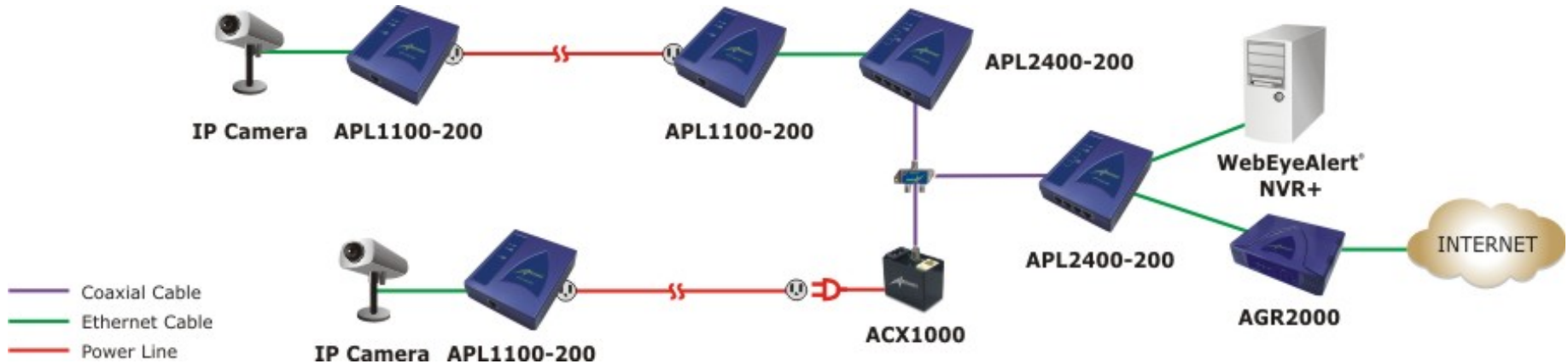
- You may want to test before installation to make sure the 2-30Mhz signal will not interfere the existing CATV programs.
- Carefully examine the cable system or consult the service provider if there are any EMI/RFI Noise filters on it. You will need to pass them through by additional ACX1000 adaptors.
- The maximum number of APL2400 connected on a network segment is 32. And 16 is recommended. If the network system consisted with more than 32 clients, you'll need to separate the network segments with RF filters.
- The network clients share the total bandwidth in a network segment. The 200Mbps of data rate is only represented when end to end connection.



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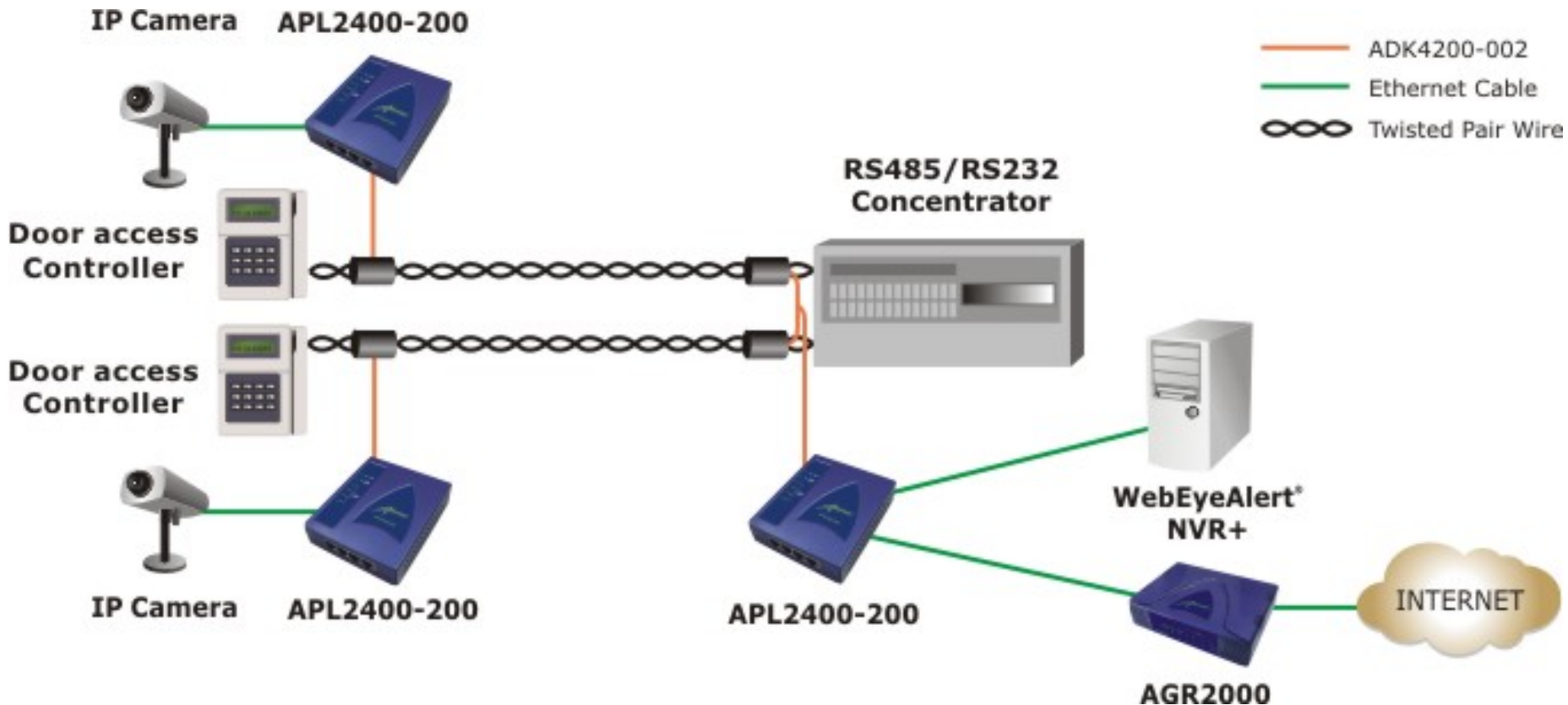
Connection between power line and coaxial cable



There are 2 ways to connect Ethernet network between power line and coaxial cable.

- Use Ethernet cable connect between APL1100 and APL2400. This way will regenerate the signal and repeat forth.
- Use ACX1000 adapter directly covert 2 mediums. This way is more cost effective. But the signal strength will slightly reduce while converting.

Ethernet over Twisted Wire



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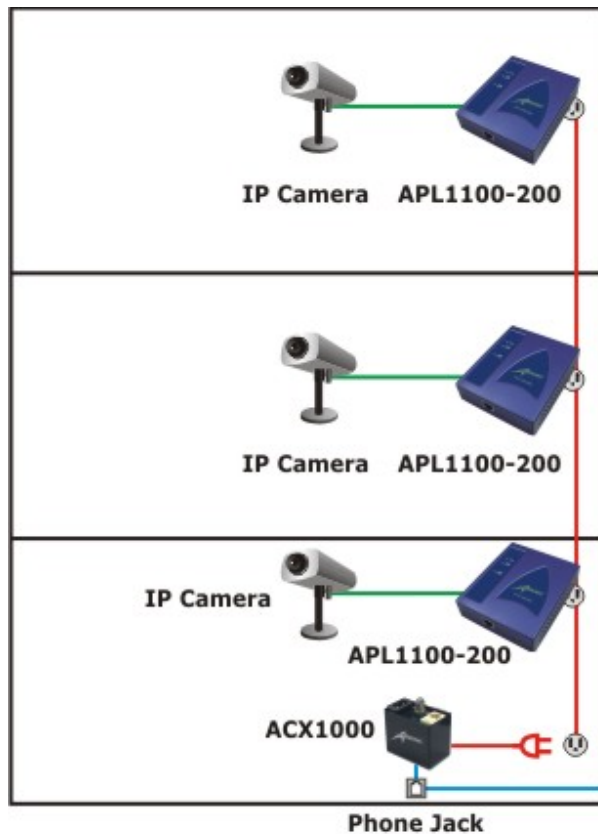
Coupling to The Twisted Wire Note



- If you can't attach to the 2 wires directly, use the ADK4200 to clamp the signal cable on the wires.
- Using inductive coupler will reduce the signal strength with 3 to 5dB loss.
- Make sure to do the same way of injecting signal in the other end of the wire.

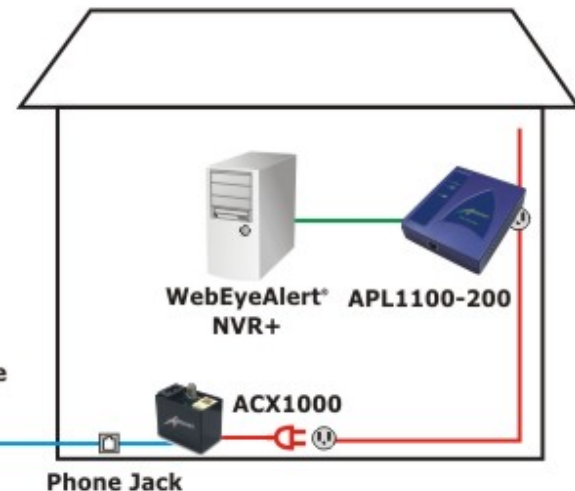


Connect 2 Buildings With ACX1000



You can't find more cost effective way to connect PLC Ethernet network between 2 building with existing medium. Especially the connection is long-range.

Connect 2 PLC networks with the telephone line or coaxial cable



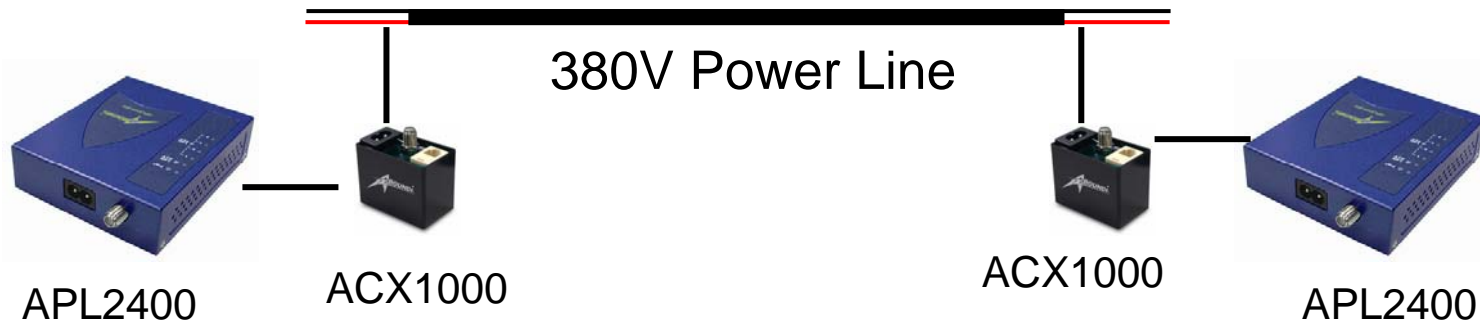
- Telephone Line
- Power Line
- Ethernet Cable



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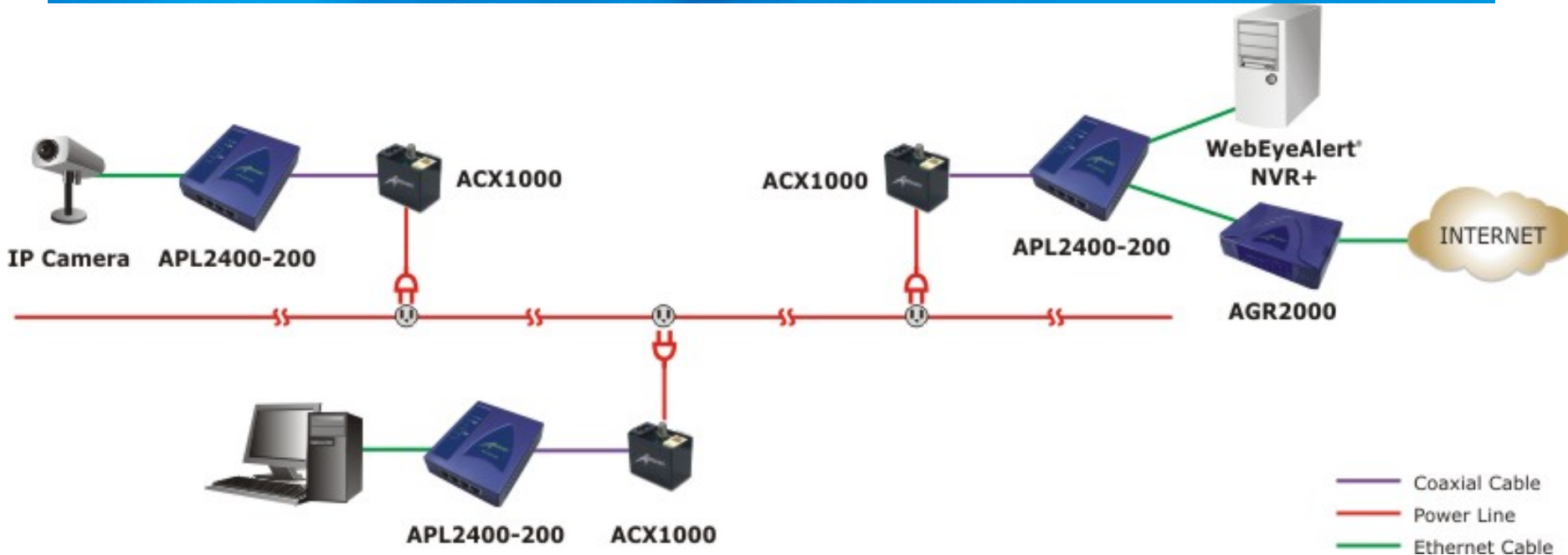
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Ethernet Over 380V AC Power Line



ACX1000 can work in the power system from 0 to 600 volt. both DC and AC. The flexibility make it possible to adopt to various application and environments. The transportations, trains, air planes, trucks... and factories, stations...

Ethernet over Power Line With ACX1000



When do you use ACX1000 + APL2400 instead of APL1100?

- The medium connected APL2400 to ACX1000 is coaxial cable. The distance is up to 2.5KM.
- The voltage on the power line is not 100-250Vac. Event when the power on the transmission power line is dropped out, the communication can be still running.



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Thank You!



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