API-2000-HE

Head-End & Repeater Infrastructure Device

Market Trends
As powerline technology matures and more utilities announce commercial roll-outs on low-voltage segments, it becomes increasingly important for vendors to provide an effective solution that uses the available Point of Presence (PoP) of backbone in an area, rather than demanding new PoPs to make PLC an effective solution. In past, utilities used various hybrid solutions to bridge this gap from PoP to PLC, but these solutions would not cater to all network/deployment topologies.

CURRENT's Solution
CURRENT's API-2000-HE Powerline medium and low voltage units allow possibilities to set up a high-speed plc network and addresses the requirement to bridge the gap between low voltage termination points and PoPs. This new product from CURRENT augments the already consolidated product portfolio for low voltage segment, thus making CURRENT's powerline range of offerings a complete end-to-end solution for PLC deployment.

The API-2000-HE provide an ideal backbone for low voltage networks because of their better sensitivity to provide longer range and higher bandwidth of up to 205 Mbps at physical layer. Further more it acts as the head-end or repeating devices within the low voltage networks itself.

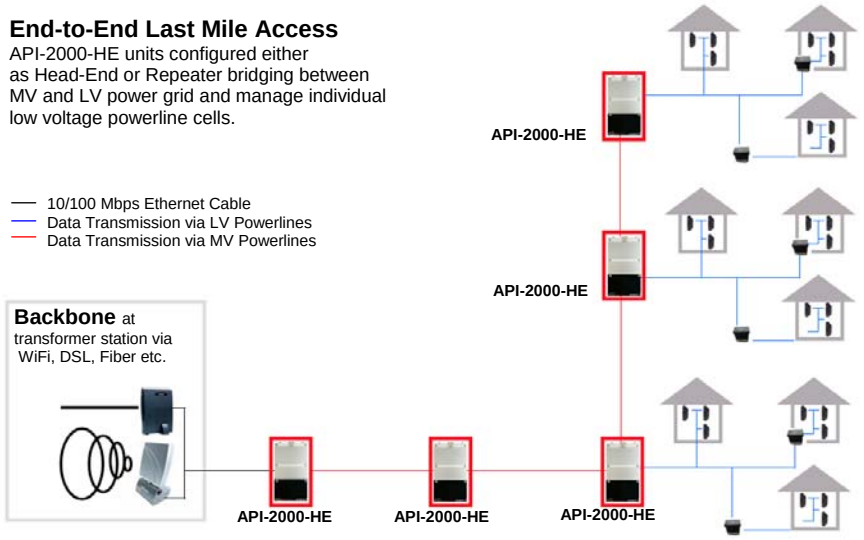
Key features
- Effective, Reliable and High Speed option for providing backbone interface to low voltage networks
- Head-End and Time Division Repeater for low voltage PLC access network
- Head-End for large In-Building distribution networks
- Significantly reduces deployment costs with positive influence on the Business Case
- Simple and safe installation
- Secure data transmission
- Full remote network management

Easy to manage, Simple to install
- Integrated DHCP and FTP services to support automatic remote configuration of any size network.
- SNMP agents enable efficient integration into standard network management systems
- HTTP for individual node configuration / monitoring.
- API-2000-HE units are small enough to fit anywhere.
- Standard interfaces ease the interconnection.

Technical Data Infrastructure Device API-2000-HE

End-to-End Last Mile Access

API-2000-HE units configured either as Head-End or Repeater bridging between MV and LV power grid and manage individual low voltage powerline cells.



Professional In-building distribution

API-2000-HE acts as Head-End unit to distribute triple-play services within any type of building

PLC Signaling
Frequency band 2 - 34 MHz
Modulation OFDM
Sub Carriers up to 1536
Signal bandwidth 10, 20, 30 MHz
Data rate up to 205 Mbps (PHY Layer)
Transmit Power up to –50dBm/Hz
64 Slaves / 1024 MAC addresses

Physical
Dimensions (HxWxD)
264 x 150 x 54 mm (without mounting bracket)
304 x 150 x 54 mm (with mounting bracket)
Weight 1.4 kg

Electrical
Voltage 90 - 264 VAC, 50/60 Hz
Power consumption < 20 W

Environmental
Temperature -10 - 55 °C
Humidity 0 - 95 %, non condensing
Protection class IP 54

Management/Provisioning
SNMP, HTTP based,
Console (Telnet, Serial),
Configuration file

Security
802.1Q VLAN,
Encryption (DES/3DES),
Authentication/blocking (per user)

External Interfaces
10/100 Mbps Ethernet RJ45
Service RS232 RJ45
Signal Coupling RJ45

Protocols
SNMP V2, TCP/IP, DHCP, FTP
VLAN, HTTP, STP, 802.1p QoS

Standards
EN55022 / EN55024
EN60950
Installation Category 4

Your local reseller:

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