MITSUBISHI PLC/BPL System Overview

15Mar. 2004
PLC Network Application Roadmap

More Possible Network Media Combinations

More Network Applications

2003

2004

2005

2006

Access PLC Network System

AMR system by PLC Access network

In home PLC Network System

Digital AV System

e-Home System

200Mbps Access/Access WiFi + 200Mbps In home PLC

200Mbps Access Modem + In home WiFi

45Mbps Access PLC + In home WiFi

45Mbps Access PLC

200Mbps Access PLC

200Mbps Access Modem + In home WiFi

45Mbps Access PLC + In home WiFi

200Mbps Access/Access WiFi + 200Mbps In home PLC

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- Devices are connected to a home network using power line.
- Users can access to the internet easily, without wiring work.
- New devices can be automatically detected and accepted by the network.
e-Home Service System

Service Providers

- Utility Energy Service
- Home Security Company
- Medicare Service
- Consumer Electronics Maker Maintenance Service

Available from the mobile terminal

Service Provider offers the service utilize the e-Home device.

e-Home device with PLC module can communicate via in-home power lines.

Available from the mobile terminal

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### 1st Generation MV Node, Repeater, and CPE Capabilities

<table>
<thead>
<tr>
<th>Bit Rate</th>
<th>- Up to 45Mbps (Up stream: 18Mbps, Down stream: 27Mbps)</th>
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</thead>
<tbody>
<tr>
<td>Service</td>
<td>- Broadband IP service, Voice over IP service</td>
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<tr>
<td>Network Functions</td>
<td>- Spanning tree protocol (IEEE Std. 802.1D), VLAN (802.11q and original VLAN), QoS</td>
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</tbody>
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**2nd Generation MV Node, Repeater, and CPE Capabilities**

<table>
<thead>
<tr>
<th>Bit Rate</th>
<th>- Up to 200Mbps (aggregated)</th>
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<tbody>
<tr>
<td>Service</td>
<td>- Broadband IP service, Voice over IP service, In-home use</td>
</tr>
<tr>
<td>Network Functions</td>
<td>- Spanning tree protocol (IEEE Std.802.1D), VLAN (802.11q and original VLAN), QoS, and more</td>
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</tbody>
</table>
Mitsubishi PLC/BPL Activity in the world

Europe

North America

Latin America

Asia/Oceania