

## **RP-VC102EK**

### **Ethernet over VDSL2**

### **Line power Extender Kits**

RP-VC102EK form a pair of remote line-powered VDSL LAN Extender providing a broadband transmission up to 100/60Mbps for downstream/upstream over single pair of copper line for point-to-point Ethernet connectivity. With remote line power supply from RP-VC102EK/M, the RP-VC102EK/M & RP-VC102EK/S support a connection distance up to 350 meters with 100/60Mbps data rate. Users may also select a fixed data rate or a fixed SNR margin for different copper line ranging.

With plug and play features and minimum installation time, a pair of RP-VC102 Series offers a cost effective solution for bandwidth-hungry applications such as video streaming and FTTB over single twisted pair telephone line.



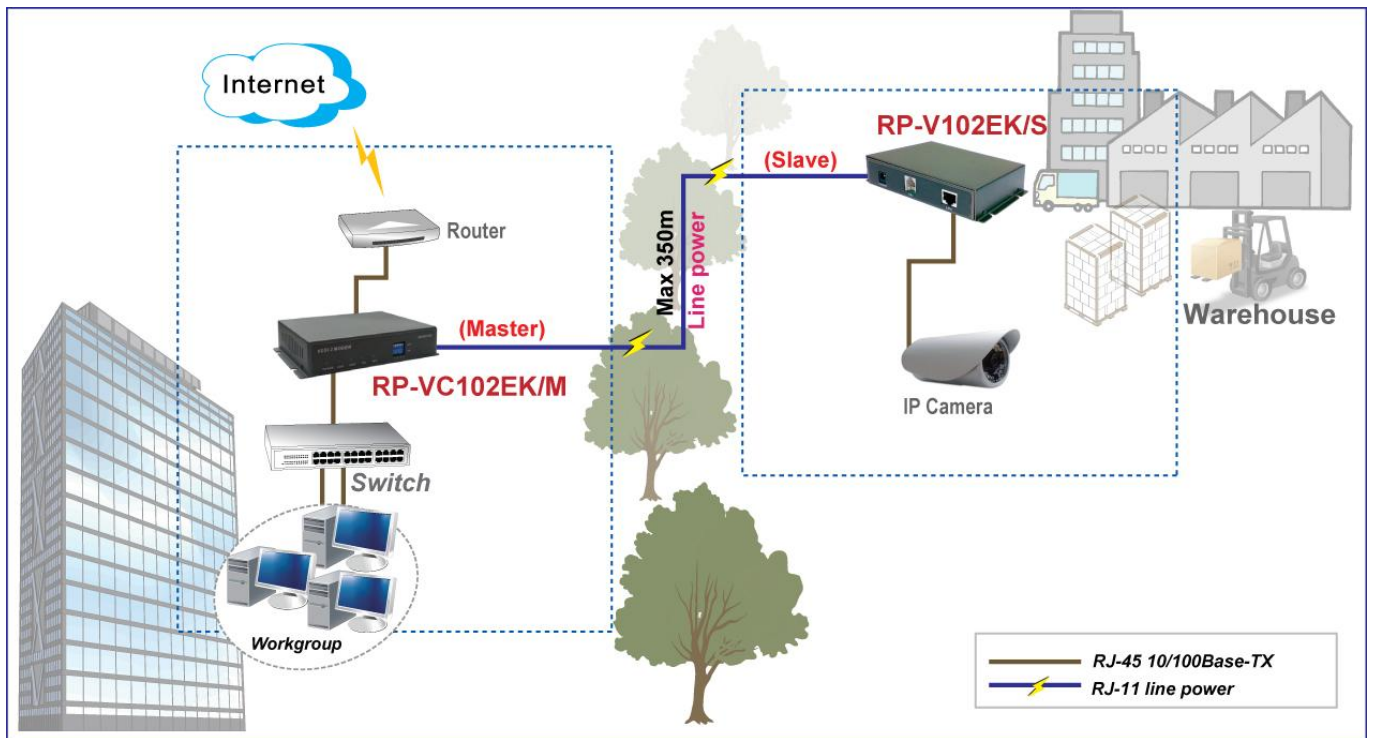
## **Feature**

- ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT Compliance
- 100/60Mbps DownStream/UpStream for distance up to 350 meters
- Remote Line Power
- Trellis Coding support up to 1024 Discrete Multi-Tone (DMT) bin
- Selectable Fast and Interleaved modes
- Selectable fixed data rate and fixed SNR margin
- Auto MDIX for 10/100 BaseT Ethernet LAN Ports
- IEEE 802.3af PSE Compliant for Class 0-3.
- 4 Dip Switches for Master/Slave Configurations
- Low-Latency for Video/Voice/Data applications

## Specification

<b>Standard</b>	<ul style="list-style-type: none"> <li>• IEEE802.3/IEEE802.3u standard</li> <li>• Ethernet over VDSL2</li> <li>• ITU-T G.993.1/2, SG15Q4 DMT Compliance</li> <li>• IEEE802.3af Power over Ethernet</li> </ul>						
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 1 RJ-45 10/100Mbps Ethernet port</li> <li>• 1 RJ-11 Connector for EoVDSL2</li> <li>• 4 DIP switch for mode selection</li> </ul>						
<b>Cable</b>	<ul style="list-style-type: none"> <li>• RJ-45 (Ethernet): Category 3, 4, 5 UTP/STP</li> <li>• RJ-11 (EoVDSL2): Twisted-Pair phone wire</li> </ul>						
<b>VDSL Transmission</b>	<ul style="list-style-type: none"> <li>• ITU-T G.993.1/2, SG15Q4 DMT Compliance</li> <li>• Trellis Code with 1024 DMT bins</li> <li>• Max Data Rate: 100/60 Mbps</li> </ul>						
<b>LAN Features</b>	<ul style="list-style-type: none"> <li>• Auto-Detection for 10/100 Base-T and Half/Full duplex</li> <li>• Fully compatible with IEEE802.3/IEEE802.3u</li> <li>• Auto MDIX Function</li> </ul>						
<b>Remote Line Power</b>	<ul style="list-style-type: none"> <li>• Safety-Extra-Low-Voltage (SELV) Compliant</li> <li>• Power Auto Restart with Under Voltage Lockout (UVLO) Fault Detection</li> </ul>						
<b>Data Rate &amp; Distance</b>	<ul style="list-style-type: none"> <li>• Performance in AWG 24 Line at 6dB without rate limit without rate limit</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Down Stream Data Rate (Mbps)</th> <th>Up Stream Data Rate (Mbps)</th> <th>Distance (feet)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">100</td> <td style="text-align: center;">60</td> <td style="text-align: center;">350</td> </tr> </tbody> </table>	Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (feet)	100	60	350
Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (feet)					
100	60	350					
<b>LED indicators</b>	<ul style="list-style-type: none"> <li>• <b>POWER:</b> Power is ON</li> <li>• <b>DSL:</b> VDSL Loop Connection Status</li> <li>• <b>LAN:</b> Data Activity of LAN Port</li> <li>• <b>PM:</b> Line Power is ON</li> </ul>						
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• External Power Adapter DC12V/2A</li> </ul>						
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: 0°C~ 50°C</li> <li>• Operating Humidity: 5%~95% (Non-Condensing)</li> </ul>						
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• 120 * 90 * 28 mm</li> </ul>						
<b>Certifications</b>	<ul style="list-style-type: none"> <li>• CE, FCC</li> </ul>						

## Application



## Ordering information

**RP-VC102EK** Ethernet over VDSL2 Line power Extender Kits  
(RP-VC102EK/M+VC102EK/S)