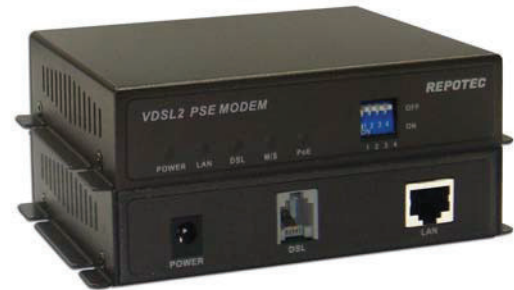


RP-VC102EP

Ethernet over VDSL2 Converter, w/ 802.3af PoE



The RP-VC102EP, a VDSL2 (Very high-bit-rate Digital Subscriber Line) PSE LAN Extender, provides a broadband transmission up to 100/60Mbps of downstream/upstream data rate over single pair copper line for point-to-point Ethernet connectivity. With 100/60Mbps data rate, RP-VC102EP supports transmission distance up to 300 meters, and 30/10 Mbps for 1km long range connection. Users may also select a fixed data rate or a fixed SNR margin for different copper line ranging. With Power Sourcing Equipment, RP-VC102EP provides power supply over Ethernet cable to the 802.3af compliant power device.

With plug and play features and minimum installation time, each RP-VC102EP can be configured into either CO for central side or RT for remote side by dip switch setting. The RP-VC102EP conforms to the ITU-T G.993.1 and G.993.2 to meet VDSL/VDSL2 and SG15Q4 DMT for network requirements. A pair of RP-VC102E and RP-VC102EP offers a cost effective solution for bandwidth-hungry applications such as LAN-to-LAN connectivity, Video Streaming, FTTB, and MDU/MTU over single twisted pair telephone line.

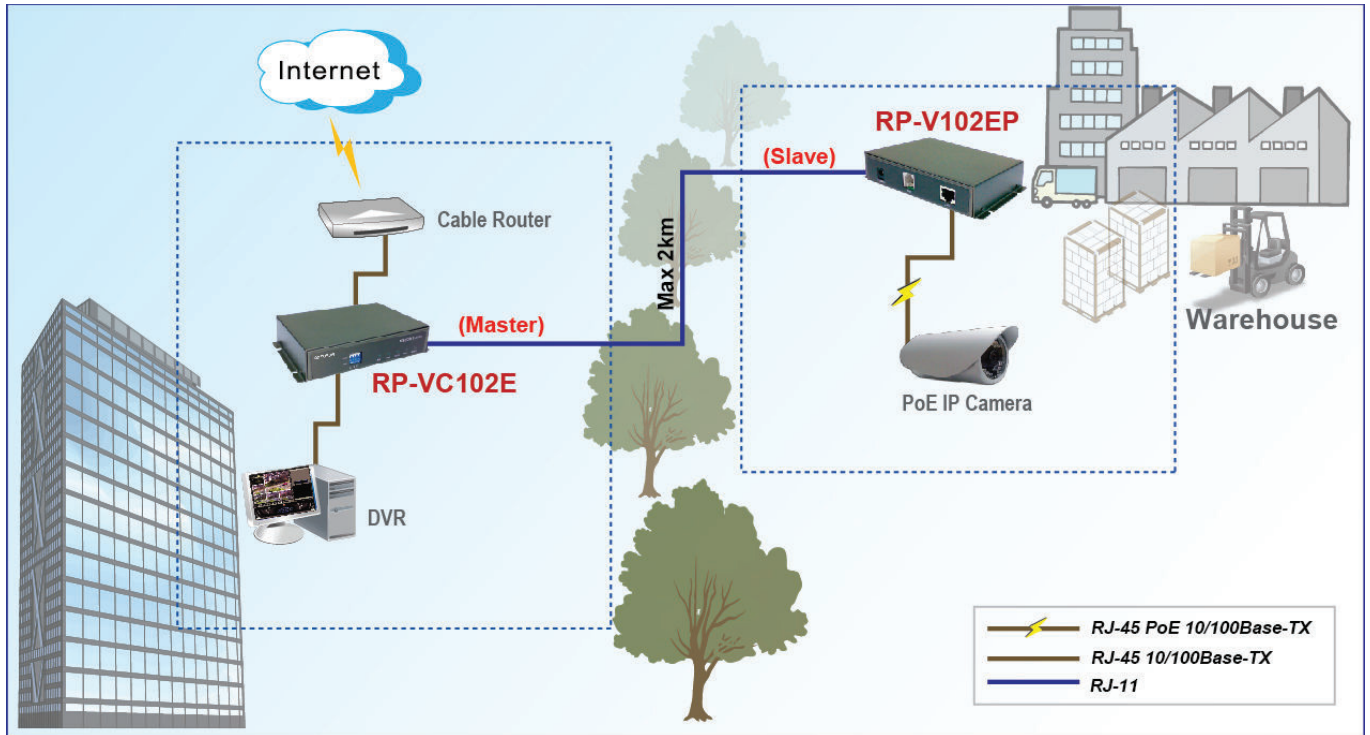
Feature

- ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT Compliance
- 100/60Mbps DownStream/UpStream for distance up to 300 meters
- Trellis Coding support up to 1024 Discrete Multi-Tone (DMT) bin
- Supports DSL connection up to 2000 meter
- Selectable Fast and Interleaved modes
- Selectable fixed data rate and fixed SNR margin
- Auto MDIX for 10/100 Base-T 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

Standard	<ul style="list-style-type: none"> • IEEE802.3/IEEE802.3u standard • Ethernet over VDSL2 • ITU-T G.993.1/2, SG15Q4 DMT Compliance • IEEE802.3af Power over Ethernet 																																	
Interface	<ul style="list-style-type: none"> • 1 RJ-45 10/100Mbps Ethernet port • 1 RJ-11 Connector for EoVDSL2 • 4 DIP switch for mode selection 																																	
Cable	<ul style="list-style-type: none"> • RJ-45 (Ethernet): Category 3, 4, 5 UTP/STP • RJ-11 (EoVDSL2): Twisted-Pair phone wire 																																	
VDSL Transmission	<ul style="list-style-type: none"> • ITU-T G.993.1/2, SG15Q4 DMT Compliance • Trellis Code with 1024 DMT bins • Max Data Rate: 100/60 Mbps 																																	
LAN Features	<ul style="list-style-type: none"> • Auto-Detection for 10/100 Base-T and Half/Full duplex • High performance bridge for Ethernet extension • Fully compatible with IEEE802.3/IEEE802.3u • Auto MDIX Function 																																	
PoE/PSE features	<ul style="list-style-type: none"> • IEEE 802.3af Compliant with output voltage within 44~57Volt • Safety-Extra-Low-Voltage (SELV) Compliant • Maximum 15.4W Power Levels for Class 0-3 • Power Auto Restart with Under Voltage Lockout (UVLO) Fault Detection 																																	
Data Rate & Distance	<ul style="list-style-type: none"> • Performance in AWG 26 Line at 6dB without rate limit <table border="1"> <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>100</td> <td>60</td> <td>500</td> </tr> <tr> <td>98</td> <td>53</td> <td>1000</td> </tr> <tr> <td>90</td> <td>44</td> <td>1250</td> </tr> <tr> <td>80</td> <td>36</td> <td>1500</td> </tr> <tr> <td>70</td> <td>27</td> <td>1750</td> </tr> <tr> <td>60</td> <td>18</td> <td>2000</td> </tr> <tr> <td>48</td> <td>11</td> <td>2500</td> </tr> <tr> <td>39</td> <td>8</td> <td>3000</td> </tr> <tr> <td>35</td> <td>3.5</td> <td>3500</td> </tr> <tr> <td>28</td> <td>0.3</td> <td>4000</td> </tr> </tbody> </table>	Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (feet)	100	60	500	98	53	1000	90	44	1250	80	36	1500	70	27	1750	60	18	2000	48	11	2500	39	8	3000	35	3.5	3500	28	0.3	4000
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28	0.3	4000																																
LED indicators	<ul style="list-style-type: none"> • POWER: Power is ON • DSL: VDSL Loop Connection Status • LAN: Data Activity of LAN Port • PSE: Power Source is ON 																																	
Power Supply	<ul style="list-style-type: none"> • External Power Adapter DC12V/1A 																																	
Environment	<ul style="list-style-type: none"> • Operating Temperature: 0°C~ 50°C • Operating Humidity: 5%~95% (Non-Condensing) 																																	
Dimension	<ul style="list-style-type: none"> • 120 * 90 * 28 mm 																																	
Certifications	<ul style="list-style-type: none"> • CE, FCC 																																	

Application



Ordering information

RP-VC102EP Ethernet over VDSL2 Converter, w/ 802.3af PoE

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