

RP-VC102CP

Coaxial over VDSL2 Converter, w/ 802.3af PoE

RP-VC102CP, a VDSL2 (Very high-bit-rate Digital Subscriber Line) Cable Extender, provides a broadband transmission up to 100/60Mbps of downstream/upstream data rate over single pair coaxial cable for point-to-point Ethernet connectivity together with PoE PSE output. With 100/60Mbps data rate, RP-VC102CP supports transmission distance up to 400 meters, and 63/27 Mbps for 1.3km long range connection. Users may also select a fixed data rate or a fixed SNR margin for different coaxial cable ranging.

With plug and play features and minimum installation time, each RP-VC102CP can be configured into either CO for central side or RT for remote side by dip switch setting. The RP-VC102CP 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-VC102C/ RP-VC102CP offers a cost effective solution for bandwidth-hungry applications such as Cable LAN-to-LAN connectivity, Video Streaming, FTTB, and MDU/MTU over single pair coaxial cable with PoE PSE output.



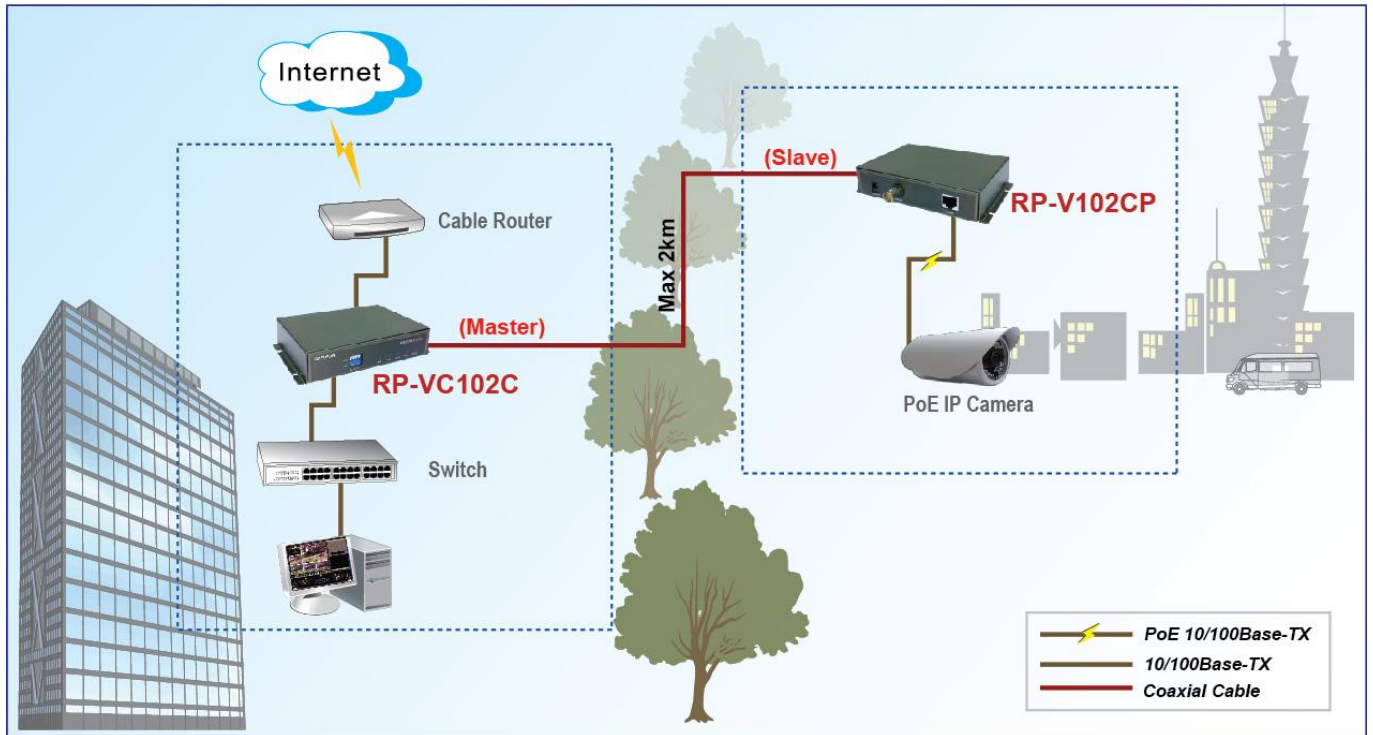
Feature

- 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 BNC Connector for DSL • 4 DIP switch for mode selection 																																	
Cable	<ul style="list-style-type: none"> • RJ-45 (Ethernet): Category 3, 4, 5 UTP/STP • BNC (DSL): Coaxial cable 																																	
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 5C2V Cable 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>100</td> <td>58</td> <td>1000</td> </tr> <tr> <td>100</td> <td>56</td> <td>1250</td> </tr> <tr> <td>98</td> <td>53</td> <td>1500</td> </tr> <tr> <td>96</td> <td>50</td> <td>1750</td> </tr> <tr> <td>88</td> <td>48</td> <td>2000</td> </tr> <tr> <td>80</td> <td>44</td> <td>2500</td> </tr> <tr> <td>75</td> <td>35</td> <td>3000</td> </tr> <tr> <td>70</td> <td>30</td> <td>3500</td> </tr> <tr> <td>63</td> <td>25</td> <td>4000</td> </tr> </tbody> </table>	Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (feet)	100	60	500	100	58	1000	100	56	1250	98	53	1500	96	50	1750	88	48	2000	80	44	2500	75	35	3000	70	30	3500	63	25	4000
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LED indicators	<ul style="list-style-type: none"> • POWER: Power is ON • BNC:Cable 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 DC5V/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

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