

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.

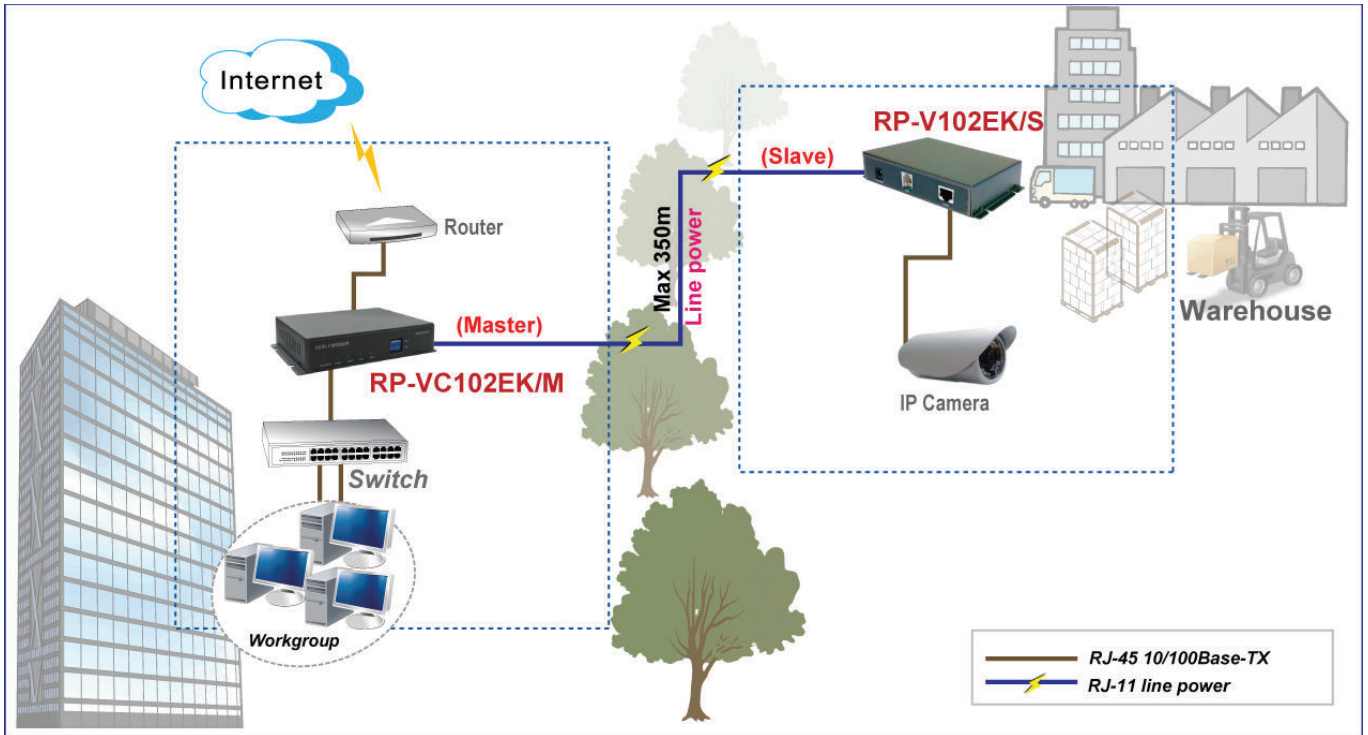
Feature

- 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

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 • Fully compatible with IEEE802.3/IEEE802.3u • Auto MDIX Function 						
Remote Line Power	<ul style="list-style-type: none"> • Safety-Extra-Low-Voltage (SELV) Compliant • Power Auto Restart with Under Voltage Lockout (UVLO) Fault Detection 						
Data Rate & Distance	<ul style="list-style-type: none"> • Performance in AWG 24 Line at 6dB without rate limit without rate limit <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)					
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LED indicators	<ul style="list-style-type: none"> • POWER: Power is ON • DSL: VDSL Loop Connection Status • LAN: Data Activity of LAN Port • PM: Line Power is ON 						
Power Supply	<ul style="list-style-type: none"> • External Power Adapter DC12V/2.5A 						
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-VC102EK Ethernet over VDSL2 Line power Extender Kits
(RP-VC102EK/M+VC102EK/S)

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