

# Telkonet Power Line Communications (PLC) Systems Comparison & Features Matrix



## Telkonet PLC Systems Comparison & Features Matrix

### Telkonet iWire™ System (14Mbps) & Telkonet Series 5 (200Mbps) System Level Specifications

System Overview	Telkonet iWire System (14Mbps)	Telkonet Series 5 Industrial (AC/DC)	Telkonet Series 5 Commercial	Telkonet Series 5 FIPS
Data Rate (Chip speed)	<ul style="list-style-type: none"> <li>14Mbps</li> </ul>	<ul style="list-style-type: none"> <li>200Mbps</li> </ul>	<ul style="list-style-type: none"> <li>200Mbps</li> </ul>	<ul style="list-style-type: none"> <li>200Mbps</li> </ul>
Data Rate – TCP/UDP Maximums	<ul style="list-style-type: none"> <li>5.7Mbps TCP</li> <li>8Mbps UDP</li> </ul>	<ul style="list-style-type: none"> <li>65Mbps TCP</li> <li>90Mbps UDP</li> </ul>	<ul style="list-style-type: none"> <li>65Mbps TCP</li> <li>90Mbps UDP</li> </ul>	<ul style="list-style-type: none"> <li>65Mbps TCP</li> <li>90Mbps UDP</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>56 DES</li> </ul>	<ul style="list-style-type: none"> <li>128 AES</li> </ul>	<ul style="list-style-type: none"> <li>128 AES</li> </ul>	<ul style="list-style-type: none"> <li>256 AES</li> </ul>
QoS Support	<ul style="list-style-type: none"> <li>Low/ High Priority</li> <li>Rate Limiting</li> </ul>	<ul style="list-style-type: none"> <li>Rate-Limiting</li> <li>Rules-Based</li> </ul>	<ul style="list-style-type: none"> <li>Rate-Limiting</li> <li>Rules-Based</li> </ul>	<ul style="list-style-type: none"> <li>Rate-Limiting</li> <li>Rules-Based</li> </ul>
Wireless Support	<ul style="list-style-type: none"> <li>No</li> </ul>	<ul style="list-style-type: none"> <li>Zigbee Module option – later release</li> </ul>	<ul style="list-style-type: none"> <li>Zigbee Module option – later release</li> </ul>	<ul style="list-style-type: none"> <li>No</li> </ul>
Additional Interfaces	<ul style="list-style-type: none"> <li>No</li> </ul>	<ul style="list-style-type: none"> <li>Model Dependent</li> </ul>	<ul style="list-style-type: none"> <li>Model Dependent</li> </ul>	<ul style="list-style-type: none"> <li>No</li> </ul>
Router Mode	<ul style="list-style-type: none"> <li>Yes</li> </ul>	<ul style="list-style-type: none"> <li>Later release</li> </ul>	<ul style="list-style-type: none"> <li>Later release</li> </ul>	<ul style="list-style-type: none"> <li>No</li> </ul>
Multicast Support	<ul style="list-style-type: none"> <li>No</li> </ul>	<ul style="list-style-type: none"> <li>Later release</li> </ul>	<ul style="list-style-type: none"> <li>Later release</li> </ul>	<ul style="list-style-type: none"> <li>Later release</li> </ul>
Preferred Telkonet eXtender™ Support	<ul style="list-style-type: none"> <li>By Rx Strength</li> </ul>	<ul style="list-style-type: none"> <li>By Rx Strength</li> <li>Preferred Gateway/eXtender</li> </ul>	<ul style="list-style-type: none"> <li>By Rx Strength</li> <li>Preferred Gateway/eXtender</li> </ul>	<ul style="list-style-type: none"> <li>By Rx Strength</li> <li>Preferred Gateway/eXtender</li> </ul>
Total Telkonet iBridge™ Support	<ul style="list-style-type: none"> <li>1,023 Total</li> </ul>	<ul style="list-style-type: none"> <li>1,023 Total</li> <li>63/eXtender in initial release</li> </ul>	<ul style="list-style-type: none"> <li>1,023 Total</li> <li>63/eXtender in initial release</li> </ul>	<ul style="list-style-type: none"> <li>1,023 Total</li> <li>63/eXtender in initial release</li> </ul>
Total Telkonet eXtender Support	<ul style="list-style-type: none"> <li>63 eXtenders per Gateway</li> </ul>	<ul style="list-style-type: none"> <li>63 eXtenders per Gateway is 100% isolation between eXtender clouds</li> </ul>	<ul style="list-style-type: none"> <li>63 eXtenders per Gateway is 100% isolation between eXtenders</li> </ul>	<ul style="list-style-type: none"> <li>63 eXtenders per Gateway 100% isolation between eXtenders</li> </ul>
SSH/SSL Management	<ul style="list-style-type: none"> <li>No</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> </ul>
IPv6 Support	<ul style="list-style-type: none"> <li>No</li> </ul>	<ul style="list-style-type: none"> <li>Later release</li> </ul>	<ul style="list-style-type: none"> <li>Later release</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> </ul>
SNMPv2 or 3	<ul style="list-style-type: none"> <li>SNMPv2</li> </ul>	<ul style="list-style-type: none"> <li>SNMPv2</li> <li>SNMPv3 Later Release</li> </ul>	<ul style="list-style-type: none"> <li>SNMPv2</li> <li>SNMPv3 Later Release</li> </ul>	<ul style="list-style-type: none"> <li>SNMPv3</li> </ul>
Power Connector	<ul style="list-style-type: none"> <li>IEC-320 C5/C6</li> </ul>	<ul style="list-style-type: none"> <li>AC/DC Plug adapter</li> </ul>	<ul style="list-style-type: none"> <li>IEC-320 C5/C6</li> </ul>	<ul style="list-style-type: none"> <li>IEC-320 C5/C6</li> </ul>

## Telkonet Gateway Specifications

Telkonet Gateway	Telkonet iWire System (14Mbps)	Telkonet Series 5 AG5 Industrial (AC/DC)	Telkonet Series 5 AG5 Commercial	Telkonet Series 5 AG5 FIPS
LED's	<ul style="list-style-type: none"> <li>• WAN – Link and Activity</li> <li>• LAN – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• WAN – Link and Activity</li> <li>• LAN – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• WAN – Link and Activity</li> <li>• LAN – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• WAN – Link and Activity</li> <li>• LAN – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>
PLC Carrier Interface	<ul style="list-style-type: none"> <li>• F-Connector</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>
Ethernet Interface	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>
Additional Interfaces	<ul style="list-style-type: none"> <li>• RS232 (Management only)</li> </ul>	<ul style="list-style-type: none"> <li>• Model Dependent</li> </ul>	<ul style="list-style-type: none"> <li>• Model Dependent</li> </ul>	<ul style="list-style-type: none"> <li>• None</li> </ul>
Gateway PLC Operational Temperature	<ul style="list-style-type: none"> <li>• Yes</li> <li>• 0°to +50°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• Later release</li> <li>• -40° to +70°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• Later release</li> <li>• 0° to +65°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• Later release</li> <li>• 0° to +65°C non-condensing</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -40° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>
Input Rating	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>	<ul style="list-style-type: none"> <li>• 100 – 240 VAC .0.25A, 50/60Hz,</li> <li>• 48 – 250 VDC</li> </ul>	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>
Regulatory Compliance	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> <li>• CE</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Compliance with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Compliance with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>
Physical Characteristics	<ul style="list-style-type: none"> <li>• L: 6.2 inches / 157mm</li> <li>• W: 5.6 inches, 142mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>

**Telkonet eXtender™ Specifications**

Telkonet eXtender	Telkonet iWire System (14Mbps)	Telkonet Series 5 AX5 Industrial (AC/DC)	Telkonet Series 5 AX5 Commercial	Telkonet Series 5 AX5 FIPS
LED's	<ul style="list-style-type: none"> <li>• ETH – Ethernet Link and Activity</li> <li>• PLC – PLC Link and Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• LAN1 – Link and Activity</li> <li>• LAN2 – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• LAN1 – Link and Activity</li> <li>• LAN2 – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• LAN1 – Link and Activity</li> <li>• LAN 2– Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>
PLC Carrier Interface	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>
Ethernet Interface	<ul style="list-style-type: none"> <li>• 1xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support)</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>
Operational Temperature	<ul style="list-style-type: none"> <li>• 0° to +50°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• -40° to +70°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• 0° to +65°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• 0° to +65°C non-condensing</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -40° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>
Power/Input Rating	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>	<ul style="list-style-type: none"> <li>• 100 – 240 VAC .0.25A, 50/60Hz, 48 – 250 VDC</li> </ul>	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>
Regulatory Compliance	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> <li>• CE</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>
Physical Characteristics	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>

**Telkonet iBridge™ Specifications**

Telkonet iBridge	Telkonet iWire System (14Mbps)	Series 5 AB5 Industrial (AC/DC)	Series 5 AB5 Commercial	Series 5 AB5 FIPS
LED's	<ul style="list-style-type: none"> <li>• ETH – Ethernet Link and Activity</li> <li>• PLC – PLC Link and Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• LAN1 – Link and Activity</li> <li>• LAN2 – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• LAN1 – Link and Activity</li> <li>• LAN2 – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• LAN1 – Link and Activity</li> <li>• LAN2 – Link and Activity</li> <li>• PLC – Link Activity</li> <li>• Power</li> </ul>
PLC Carrier Interface	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>	<ul style="list-style-type: none"> <li>• F-Connector or Power Connector (model dependant)</li> </ul>
ETH Interface	<ul style="list-style-type: none"> <li>• 1xRJ45 10base-T</li> <li>• Auto-Crossover support</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support)</li> </ul>	<ul style="list-style-type: none"> <li>• 2xRJ45 10/100base-T</li> <li>• Auto-Crossover support</li> </ul>
Additional Interface Options	<ul style="list-style-type: none"> <li>• None</li> </ul>	<ul style="list-style-type: none"> <li>• RS232 and/or 485</li> <li>• Powered Interface</li> <li>• None</li> </ul>	<ul style="list-style-type: none"> <li>• RS232, 485 option</li> <li>• Powered Interface</li> <li>• None</li> </ul>	<ul style="list-style-type: none"> <li>• RS232, 485 option</li> <li>• Powered Interface</li> <li>• None</li> </ul>
Operational Temperature	<ul style="list-style-type: none"> <li>• 0° to +50°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• -40° to +70°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• 0° to +65°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• 0° to +65°C non-condensing</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -40° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>• -20° to +70°C</li> </ul>
Power/Input Rating	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>	<ul style="list-style-type: none"> <li>• 100 – 240 VAC 50/60Hz</li> <li>• 48 – 250 VDC</li> </ul>	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>	<ul style="list-style-type: none"> <li>• 100-240 VAC, 0.25A, 50/60Hz</li> </ul>
Regulatory Compliance	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> <li>• CE</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>	<ul style="list-style-type: none"> <li>• NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>• IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>
Physical Characteristics	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>	<ul style="list-style-type: none"> <li>• L: 6 inches / 152mm</li> <li>• W: 4.3 inches / 109mm</li> <li>• H: 1.1 inches / 28mm</li> </ul>

## Telkonet Coupler Specifications

Telkonet Coupler	MVC-100 (Wye)	DPC-100 (Delta)	MVC-200 (Wye)	DPC-200 (Delta)
Power Line Carrier Interface	<ul style="list-style-type: none"> <li>F-type connector</li> </ul>	<ul style="list-style-type: none"> <li>F-type connector</li> </ul>	<ul style="list-style-type: none"> <li>F-type connector</li> </ul>	<ul style="list-style-type: none"> <li>F-type connector</li> </ul>
Power Terminals	<ul style="list-style-type: none"> <li>Four terminals: one for each phase (three total) and neutral</li> </ul>	<ul style="list-style-type: none"> <li>Three terminals: one for each phase (three total) and neutral</li> </ul>	<ul style="list-style-type: none"> <li>Four terminals: one for each phase (three total) and neutral</li> </ul>	<ul style="list-style-type: none"> <li>Three terminals: one for each phase</li> </ul>
Electrical Cable	<ul style="list-style-type: none"> <li>4 Conductor XHHN-2, 12 AWG 600V Cables: phase A, phase B, phase C and neutral</li> <li>Supports connection to a single, split or 3-phase Wye system</li> </ul>	<ul style="list-style-type: none"> <li>3 Conductor XHHN-2, 12 AWG 600V Cables: phase A, phase B, phase C</li> <li>Supports connection to a single, split or 3-phase Delta system</li> </ul>	<ul style="list-style-type: none"> <li>4 Conductor XHHN-2, 12 AWG 600V Cables: phase A, phase B, phase C and neutral</li> <li>Supports connection to a single, split or 3-phase Wye system</li> </ul>	<ul style="list-style-type: none"> <li>3 Conductor XHHN-2, 12 AWG 600V Cables: phase A, phase B, phase C</li> <li>Supports connection to a single, split or 3-phase Delta system</li> </ul>
Operational Temperature	<ul style="list-style-type: none"> <li>0° to 50°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>0° to 50°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>-40° to 70°C non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>-40° to 70°C non-condensing</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>-20° to 70°C</li> </ul>	<ul style="list-style-type: none"> <li>-20° to 70°C</li> </ul>	<ul style="list-style-type: none"> <li>-40° to +70°C</li> </ul>	<ul style="list-style-type: none"> <li>-40° to 70°C</li> </ul>
Power/Input Rating	<ul style="list-style-type: none"> <li>100-480 VAC, 0.1 amps, 50/60 Hz, AC-3AC, Wye</li> </ul>	<ul style="list-style-type: none"> <li>100-480 VAC, 0.1 amps, 50/60 Hz, AC-3AC, Delta</li> </ul>	<ul style="list-style-type: none"> <li>100-480 VAC, 0.1 amps, 50/60 Hz, AC-3AC, Wye, 0-250 VDC</li> </ul>	<ul style="list-style-type: none"> <li>100-480 VAC, 0.1 amps, 50/60 Hz, AC-3AC, Delta, 0-250 VDC</li> </ul>
Regulatory Compliance	<ul style="list-style-type: none"> <li>NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>IEC 60950-1</li> <li>FCC Part 15</li> <li>Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> <li>CE</li> </ul>	<ul style="list-style-type: none"> <li>NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>IEC 60950-1</li> <li>FCC Part 15</li> <li>Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> <li>CE</li> </ul>	<ul style="list-style-type: none"> <li>NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>IEC 60950-1</li> <li>FCC Part 15</li> <li>Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>	<ul style="list-style-type: none"> <li>NRTL Certified (Listed) to ANSI/UL 60950-1-2006</li> <li>IEC 60950-1</li> <li>FCC Part 15</li> <li>Complies with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul>
Physical Characteristics	<ul style="list-style-type: none"> <li>L: 5.6 inches, 142mm</li> <li>W: 5.8 inches, 147mm</li> <li>H: 2.3 inches, 58mm</li> </ul>	<ul style="list-style-type: none"> <li>L: 5.6 inches, 142mm</li> <li>W: 5.8 inches, 147mm</li> <li>H: 2.3 inches, 58mm</li> </ul>	<ul style="list-style-type: none"> <li>L: 5.6 inches, 142mm</li> <li>W: 5.8 inches, 147mm</li> <li>H: 2.3 inches, 58mm</li> </ul>	<ul style="list-style-type: none"> <li>L: 5.6 inches, 142mm</li> <li>W: 5.8 inches, 147mm</li> <li>H: 2.3 inches, 58mm</li> </ul>
Phoenix Terminal Block	<ul style="list-style-type: none"> <li>4 Terminals, Torque Spec-4.4in/lb or 0.5Nm</li> </ul>	<ul style="list-style-type: none"> <li>3 Terminals, Torque Spec-4.4in/lb or 0.5Nm</li> </ul>	<ul style="list-style-type: none"> <li>4 Terminals, Torque Spec-4.4in/lb or 0.5Nm</li> </ul>	<ul style="list-style-type: none"> <li>3 Terminals, Torque Spec-4.4in/lb or 0.5Nm</li> </ul>

### Telkonet PLC Systems Comparison Summary

The Telkonet Series 5 uses distributed switching at the Telkonet eXtender™, allowing for higher system bandwidth aggregation. In a multi-building isolated system architecture, the Telkonet Series 5 can aggregate 4 - 6Gbps as opposed 50Mbps for the Telkonet iWire System™ (14Mbps).

The Telkonet Series 5 Gateway (AG5) acts as a manager as opposed to an aggregator. The AG5 supports SSL/SSH. The AG5 Gateway will not support PLC on GA 5.1.x release, but will be included in GA 5.2.x release. The Telkonet Series 5 has extended temperature operation range of 0 to +65 degrees C and an optional Industrial screened version rated for -40 to +70 degrees C operation.

The Telkonet Series 5 supports 63 Telkonet iBridges™ per un-isolated domain (single building) when in Learning mode (which allows Telkonet iBridges to associate with whichever Telkonet eXtender they “hear” the best). Alternatively, the system has the ability to soft configure Telkonet iBridges to a specific Telkonet Gateway/Telkonet eXtender.

The Telkonet Series 5 supports optional (model dependent) AC/DC applications (48-250 VDC), in addition to the standard AC only system (100-240 VAC). A new MVC200 and DPC200 were designed to support both AC/DC systems.

A model of the Telkonet Series 5 iBridge includes an optional Serial Interface Port to support DNP3, Modbus, RS232 and RS485 interfaces. Configurable software supports both Ethernet-to-serial and serial-to-serial bridging of DNP3, Modbus protocols.

The Telkonet Series 5 iBridge (AB5) also has dual Ethernet ports with separate VLANs per port.

The Telkonet Series 5 has enhanced QoS with 8 independent rules with independent triggers, traffic shaping, priorities and timeouts, and also supports 4 Class of Service profiles for Telkonet iBridge parameters, making deployment of “tiered services” within a premise quick and easy.

---

[www.telkonet.com](http://www.telkonet.com)

#### Telkonet Headquarters

20374 Seneca Meadows Parkway  
Germantown, Maryland 20876.7004 U.S.A.  
sales@telkonet.com  
international@telkonet.com

Phone: 240.912.1800  
Toll-Free in the US: 866.375.6276  
Fax: 240.912.1839



20374 Seneca Meadows Parkway  
Germantown, Maryland 20876.7004 U.S.A.  
[sales@telkonet.com](mailto:sales@telkonet.com)  
[international@telkonet.com](mailto:international@telkonet.com)

Phone: 240.912.1800  
Toll-Free in the US: 866.375.6276  
Fax: 240.912.1839  
[www.telkonet.com](http://www.telkonet.com)