

# AVoIP SPECS Checklist

Evaluation Category	Key Requirement	Selection Criteria & Notes
<b>Video Quality &amp; Latency</b>	Latency tolerance and frequency requirements	<ul style="list-style-type: none"> <li><input type="checkbox"/> Uncompressed / zero latency: 10G network support only, ideal for premium theaters and medical applications</li> <li><input type="checkbox"/> Ultra-low latency (30–40 ms): 1G network support, suitable for KVM operation and video conferencing</li> <li><input type="checkbox"/> Standard latency (100 ms+): 1G network support, suitable for basic video reception and digital signage</li> </ul>
<b>Network &amp; Transmission Media</b>	Media and power supply method	<ul style="list-style-type: none"> <li><input type="checkbox"/> Copper cable (Cat6a): Supports PoE power, transmission distance within 100 m</li> <li><input type="checkbox"/> Fiber: Does not support PoE; local power is required. Ideal for long-distance or cross-area installations</li> </ul>
<b>Physical Interface</b>	Input-side interface specification	<ul style="list-style-type: none"> <li><input type="checkbox"/> HDMI 2.0</li> <li><input type="checkbox"/> DisplayPort (DP)</li> <li><input type="checkbox"/> USB-C (DP Alt Mode): Confirm whether reverse PD charging is required</li> </ul>
<b>Functional Requirements</b>	KVM control requirements	<ul style="list-style-type: none"> <li><input type="checkbox"/> Not required</li> <li><input type="checkbox"/> Basic KVM for remote operation</li> <li><input type="checkbox"/> Mouse Roaming for multi-screen, cross-window control</li> </ul>
	Video wall and audio processing	<ul style="list-style-type: none"> <li><input type="checkbox"/> Video Wall: Requires edge-cutting or bezel compensation functions</li> <li><input type="checkbox"/> Audio De-embedding: Requires independent audio output connection</li> </ul>
<b>Control &amp; Integration</b>	Planned control method	<ul style="list-style-type: none"> <li><input type="checkbox"/> Physical buttons / remote control</li> <li><input type="checkbox"/> Web GUI / mobile app</li> <li><input type="checkbox"/> Third-party control integration (API / RS-232), such as Crestron or Extron</li> </ul>
<b>Security</b>	Security level	<ul style="list-style-type: none"> <li><input type="checkbox"/> HDCP 2.2</li> <li><input type="checkbox"/> AES encryption</li> <li><input type="checkbox"/> 802.1X authentication</li> </ul>