

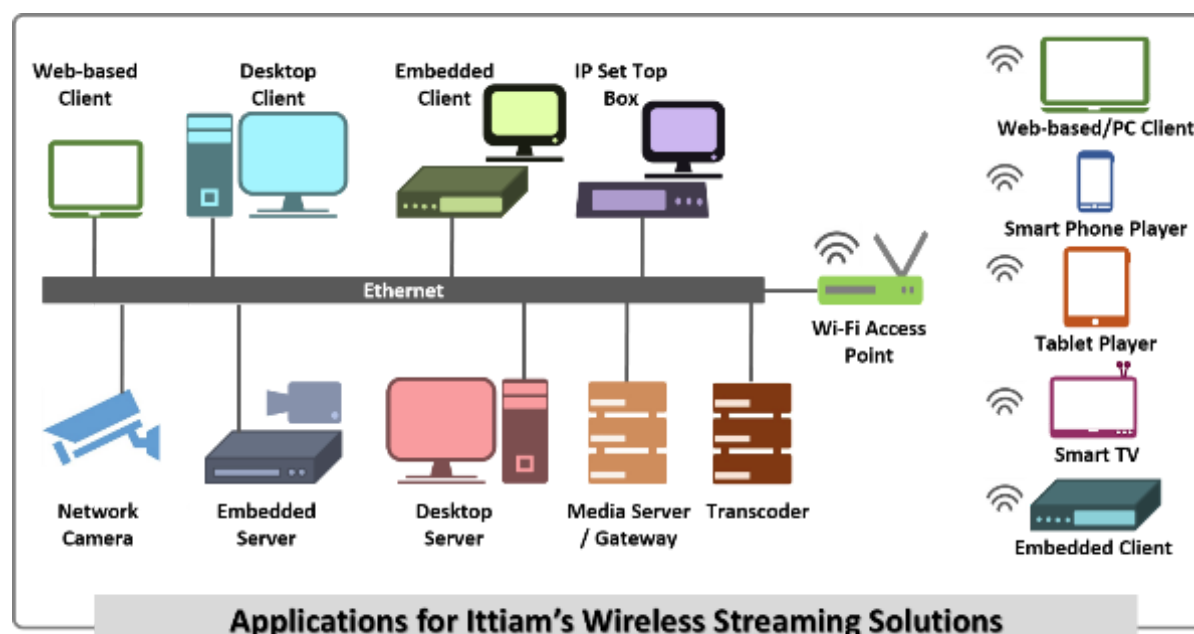


HIGH QUALITY WIRELESS VIDEO STREAMING

Video streaming over wireless networks is emerging as the future of connectivity for most **industrial & defense applications**. Primarily driven by **the need for mobility**, Wi-Fi devices are becoming a part of several video streaming networks, often inter-operating with traditional devices on wired network. Ittiam's **Video Encoders (Servers)**, **Video Decoders (Clients/Players)** and **Video Transcoders** include specialized algorithms to address the following wireless streaming challenges:

- Delivering optimal video quality during network congestion and fluctuations in available bandwidth
- Handling network induced impairments (loss, jitter and errors) and loss of connectivity
- Heterogeneous formats to support different Wi-Fi clients (multi-screen delivery)
- Seamless inter-operation with commercial media servers and players
- [Low latency video streaming](#)

These solutions are available on desktop, embedded and mobile devices (iOS, Android). Ittiam offers embedded solutions ([neonCaster Hardware Boards](#), [Media SDKs](#) and [System Software](#)) that enable high-quality video streaming over Wi-Fi networks. .



SOLUTION HIGHLIGHTS

Adaptive Streaming

- [+] Packet-loss/congestion based server-initiated adaptation
- [+] Dynamic bitrate, frame-rate, resolution changes for video
- [+] UDP/TCP, HTTP (HLS, DASH) streaming

Handling Network Impairments

- [+] Adaptive jitter handling
- [+] Packet loss concealment
- [+] Network bandwidth reservation
- [+] Forward Error Correction (FEC)

Smart Video Encoding & Rate Control

- [+] Slice mode encoding
- [+] CBR, VBR, Constrained VBR encoding
- [+] Adaptive Intra Refresh (AIR)

Inter-Operability

- [+] Interoperable with commercial media servers and players

Hardware Boards

- [+] Available on neonCaster family of hardware boards

[neonCaster Gen I](#) | [neonCaster Gen II NPM](#) | [neonCaster Gen II Clove](#)

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