PROs & CONs OF AVoIP vs HDBaseT

INTRODUCTION

Current video and audio distribution methods mainly use the HDBaseT technology which has been proven to be very reliable and cost effective for small and medium size installations. However, with the recent advances in video compression techniques it has now become obvious that AVoIP technology has many advantages over this traditional method with scalability, flexibility and greater transmission distance.

	AVoIP		HDBaseT
✓	Scalable design – easy to upgrade	✗	Fixed I/O architecture – input limitations
✓	Low bandwidth (<1GbE systems)	✗	8+ Gbps data rate (16Gbps for spec 3.0)
✓	Retro fitting to Cat 5e	✗	Higher cabling spec required
✗	Compression always required	✓	Bit for bit modulation (18Gbps in V3.0)
✓	Minimal Latency (< frame 16-30ms)	✓	Zero latency (10us)
✓	Virtually unlimited distance	✗	Limited to 150m @ 1080p
✓	Cost effective for large systems	✓	Cost effective for small systems (4x4)
✓	Standard network testing of cabling	✗	Proprietary testing of cabling
✓	Full scaling on decoders	✓	Limited scaling options