



The Lynx Ultra™ Television Distributed on Cat 6 Cable



The Lynx Ultra is designed to deliver television (RF) on Cat 5/6 cable. It can distribute up to 804 digital channels or 268 HD channels over 100 meters of Cat 5 or Cat 6 cable. High frequency RF baluns in both the hub and end converters convert RF signals from a 75 ohm coaxial input signal to a 100 ohm UTP signal, and back again when the signal reaches the point of use. The product has bi-directional capabilities, and can be used in CATV, MATV, and SMATV applications.

Frequency capabilities Forward frequencies: 55 MHz to 860 MHz
 Reverse path frequencies: 5 MHz to 42 MHz
 DOCSIS / FSK/ T Channel video return capable

RF capabilities Digital: HD, 4K, 8K, 4K with HDR (high dynamic range), 8K, and SD
 Analog: NTSC and PAL

Electrical specifications Insertion loss of 14 dB @ 550 MHz
 Insertion loss of 15dB @860 MHz
 Input impedance: 75 ohms
 Output impedance: 100 ohms
 Return loss: -15 dB @ 550 MHz

Performance characteristics

Distance capabilities with amplified converter (assumes 48 dB to hub and Cat 6 cable)	Meters	Feet	Frequency	Digital ch. (1 MHz)	HD channels (3 MHz)	Analog ch. (6 MHz)
	100	328	860 MHz	804	268	134
Distance capabilities with passive converter (assumes 48 dB to hub and Cat 6 cable)	70	230	860 MHz	804	268	134
	76	240	750 MHz	702	234	117
	81	265	550 MHz	468	156	78

An interactive Lynx Ultra design model is available upon request.

Agency standards	FCC CFR Part 15 Class A, EM55022, CISPR 22	
Physical characteristics	Connectors: F connector and RJ-45 jack	
	Dimensions of rackmounted hub: 19" x 3.25" x 1.75"	
	Dimensions of Ultra converters: 3" x 2.62"	
	Weight of 24 port hub (HD24): 3 lbs. 15 oz.	
	Weight of 16 port hub (HD16): 3 lbs. 2 oz.	
	Weight of 8 port hub (HD8): 2 lbs. 5 oz.	
	Weight of passive end converter: 2.5 oz.	
	Weight of amplified end converter: 3.5 oz.	
	Port density of hubs: 8, 16, or 24 ports per hub	
	UTP cable compatibility: Cat 5E, Cat 5e, Cat 6, Cat 6A, Cat 7	
	UTP pin usage: Pins 7 and 8 are active	
	Cabling method: ANSI/TIA 568 A or B	
Environmental	Operating temperature: 32° F to 131° F (0° C to 55° C)	
	Relative humidity: < 85% non-condensing	
	Storage temperature: -40°F to 185°F (-40°C to 85° C)	
Warranty	1 year warranty on parts	
Part numbers	24 port Ultra Hub – HD24	L40-0271
	16 port Ultra Hub – HD16	L40-0270
	8 port Ultra Hub – HD8	L40-0269
	8 port Ultra Hub without rackmount	L40-0260
	Passive Ultra Converter – UC	L40-0257
	Amplified Ultra Converter – AUC	L40-0258
	Wallmount bracket for hubs	180-0529
	Wallmount bracket for UC and AUC	809-1845



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