The Leaf range of HDBaseT Matrices deliver incredible, bit perfect distribution of your source material to every display in the house or commercial installation. The LT2020E is the flagship of the Leaf range, a statement of excellence.
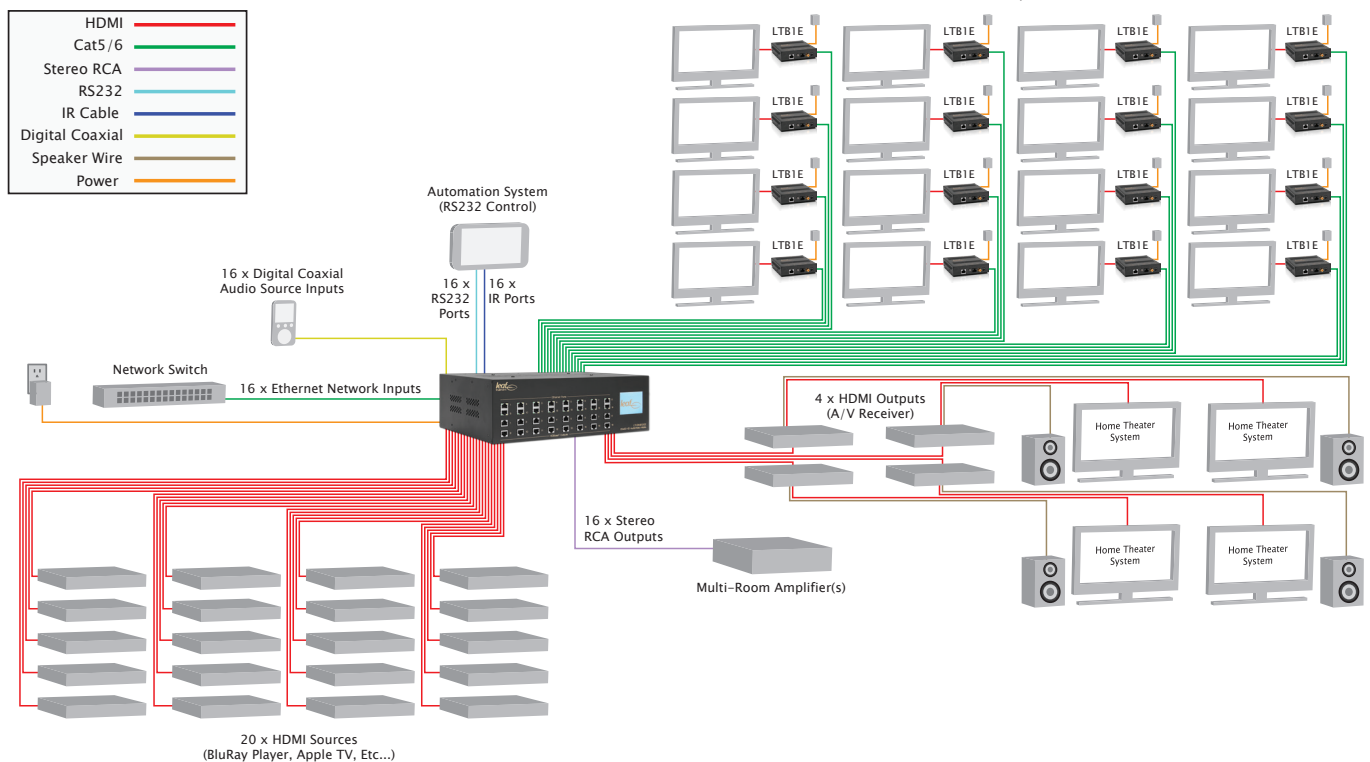
The Award Winning LT2020E is capable of distributing 20 HDMI (3D, HD Audio/Video) sources to 16 zones utilizing HDBaseT technology. It also features 4 additional local HDMI outputs for in-rack or in-room end-points. The integrated Audio Matrix combines audio stripped from the HDMI sources with 16 coaxial digital inputs and up to 16 audio return paths from the Leaf breakout's to create a 52 source x 16 zone audio solution, with variable volume, bass & treble controls and audio delay functionality. In addition, the LT2020E is also designed to distribute bi-directional RS232 & directional IR and Ethernet (10/100). Using Full HDBaseT as the medium, it requires a single Cat 6 as the only cabling between the matrix and the zone with distances up to 328 feet (100 meters). It is flexible enough to use the Leaf LTB1, LTB1E, LTBSR or LTB8 as room breakout units. The LT2020E is easy to set-up utilizing Leaf's EDID management system EZ-Calibration and features our unique Zone Lock technology for zones where only true HD audio will do.

The LT2020E has an integrated touch screen for control and setup via the front panel. It is designed to be integrated into a high-end control system.

Block Diagram

HDMI	
Cat5/6	
Stereo RCA	
RS232	
IR Cable	
Digital Coaxial	
Speaker Wire	
Power	

16 x HDBaseT Outputs with Ethernet

LTB1E

Automation System
(RS232 Control)

16 x Digital Coaxial
Audio Source Inputs

16 x
RS232
Ports

16 x
IR Ports

4 x HDMI Outputs
(A/V Receiver)

Home Theater System

Network Switch

16 x Ethernet Network Inputs

16 x Stereo
RCA Outputs

Multi-Room Amplifier(s)

20 x HDMI Sources
(BluRay Player, Apple TV, Etc...)

Specifications

Video Outputs	16 x HDBaseT 4 x Local HDMI v.1.4 with full 3D
Video Inputs	20 x HDMI
Audio Outputs	16 x Stereo analog RCA Line Out
Audio Inputs	16 x Local S/PDIF digital inputs 16 x Remote S/PDIF digital inputs (through room-Breakouts)
Supported Video Formats	480i/480p/576i /576p/720p/1080i/ 1080p(60), 3D, DVI
Supported Audio Formats	DTS-HD Master Audio, Dolby True HD, Multi-Channel 5.1 and 7.1, Stereo
Pass-through Controls	16 x Directional IR (3.5mm) 16 x Bi-Directional RS232 (RJ45) 16 x 100BaseTX Ethernet (RJ45) (LTB1E only)
Transmission Distance	328 ft (100m) with Cat6 229 ft (70m) with Cat5e
RS232 Control	DB9 Female (Binary String)
Power Requirements	12V 180W (Use Leaf Supply Only)
Consumption	5A @12VDC (Subject to resolution and feature use)
Dimensions	Width 16.45 in (418mm) (19 in (484mm) with Rack Ears) Depth 11.41 in (290mm) Height 5.25 in (133mm) (5.75 in (147mm) with Feet)
Rack Space Required	3U (4U with RMK2020 Recessed Rack Mount Kit)