



CONNEX LINK UHD: THE ONLY ZERO LATENCY 4K HDR WIRELESS SOLUTION

CONNEX Link **UHD** offers a set of embedded wireless transmitter & receiver modules, based on AMIMON's 3rd generation chipsets.

The modules are suitable for OEM partners, who wish to create wireless production eco-system components. The brand new CONNEX Link **UHD** product line has a 4K HDR HDMI interface, an enhanced data channel and SW control via APIs. The connectivity is done via board-to-board connectors on the transmitter and receiver modules. The system enables flexible feature set, like 20MHz or 40MHz bandwidth and 2x3, 2x5 or 4x5 MIMO configuration.

The system is designed to create the most robust and highest quality wireless links for both indoor and outdoor applications. The design is suitable for various applications ranging from OR medical equipment, high-end wireless production monitors, and high-range industrial remote control units.

KEY CAPABILITIES

Video resolution up to 4K30 (2160p30fps), Broadcast grade picture quality with latency under 1mS.

Enhanced bi-directional data channel of up to 100Kbps, for control messages or metadata.

Automatic real-time frequency selection for the best RF channel available, utilizing the full span of the 5GHz band.

TRANSMITTER INTERFACE

- **100 PIN board to board connector**
Video input – HDMI
Control – UART/ SPI/ USB
Power – 5V
- **Antenna Connectors**
2 or 4 UFL connectors for transmitting antennas

RECEIVER INTERFACE

- **120 PIN board to board connector**
Video input – Dual HDMI
Control – UART/ SPI/ USB
Power – 5V
- **Antenna Connectors**
3 or 5 UFL connectors for receiving antennas



CONNEX LINK UHD - SPECIFICATION

- HD Video resolution up to 4K 3840X2160 30fps
- Latency: < 1mS
- MIMO configurations: 2x3, 2x5 (for highest link robustness) or 4x5 (for highest quality)
- Antennas: UFL
- Supported RF bandwidth: 40MHz or 20MHz
- AFS (Automatic Frequency Selection): Ensures best channel selection, pre-link and in-link
- Entire unlicensed 5GHz spectrum (5.15-5.85 GHz), supporting DFS (Dynamic Frequency Selection)
- Encryption: AES-256

	CONNEX Link UHD Transmitter	CONNEX Link UHD Receiver
Part Number	MD3_EM30H_C1_TX	MD3_EM30H_B1_RX
Mechanical Size		
Video Format	4K30/25/24 (4K UHD, 4K DCI), 1080p120/60/59/50/30, 1080i60/59/50, 720p60/59/50	
Power Consumption	6.5W	5W
Radio Frequency	5.15-5.85GHz, Bandwidth: 20MHz or 40MHz	
Environment	Operation: 0:40°C, 10%~90% humidity Storage: 0:55° C, 10%~90% humidity	
Regulation Support	FCC, CE, MIC	

ABOUT CONNEX

CONNEX is the market leader in wireless HD video solution, providing high-end video & control systems for Cinema, Industrial, Medical, Unmanned, and Construction markets.