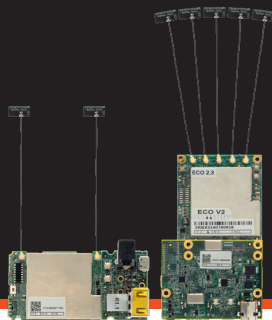


FALCO EM

EMBEDDED ZERO LATENCY WIRELESS MODULES



The Falco EM product family offers a set of embedded wireless transmitter & receiver modules. The EM modules are suitable for OEM/ODM partners who wish to integrate wireless video into their medical devices.

The EM modules deliver up to 4K resolution video through a dedicated board-to-board connected HDMI interface and offers a flexible feature set, like various BW and MIMO configurations. Its small size and low power consumption allows for integration into a wide variety of products and applications.

The design is suitable for various medical applications ranging from Endoscopy camera control units, surgical monitors, operating light cameras, wearable headlight cameras, and hand-held wireless cameras.

KEY FEATURES

- Video resolution: Up to 4K 3840X2160 30fps
- Latency: < 1mS
- Supported RF bandwidth: 20MHz or 40MHz
- MIMO configurations: 2x5 or 4x5
- Antennas: UFL / SMA
- AFS (Automatic Frequency Selection): Ensures best channel selection.
- DFS (Dynamic Frequency Selection): Supports entire unlicensed 5GHz spectrum (5.1-5.9 GHz)
- Encryption: AES-256

	EM10/11 Transmitter	EM21 Transmitter	EM10/11/21 Receiver
Dimensions	57.5mm x 37.5mm	70mm x 56mm	70mm x 55mm
Connector	50 Pin connector	100 Pin connector	120 Pin connector
Video Interface	HDMI		
Control	UART/ SPI/ USB		
Power Input	5V		
Power Consumption	5W	6.5W	5W
Antennas	2	4	5
Video Formats	EM10 - up to 1080P60fps EM11 - up to 4K30fps	Up to 4K30fps	EM10 - up to 1080P60fps EM11/21 - up to 4K30fps
Radio Frequency	5.1-5.9GHz, 20MHz or 40MHz bandwidth		
Regulation	FCC, CE, MIC, IC, KC		
Environment	Operation: 0-40°C, 10%~90% humidity Storage: 0-55°C, 10%~90% humidity		
Advantages	Smaller form factor & Low power consumption	Better picture quality in 4K	

