



RKV488TYPEC-V2.0

**4K60HZ TypeC to HDMI
Extender**



RGB LOGIC AV EQUIPMENT CORPORATION

No. 3, Jalan Rajawali, Singapore. -598436

Overview

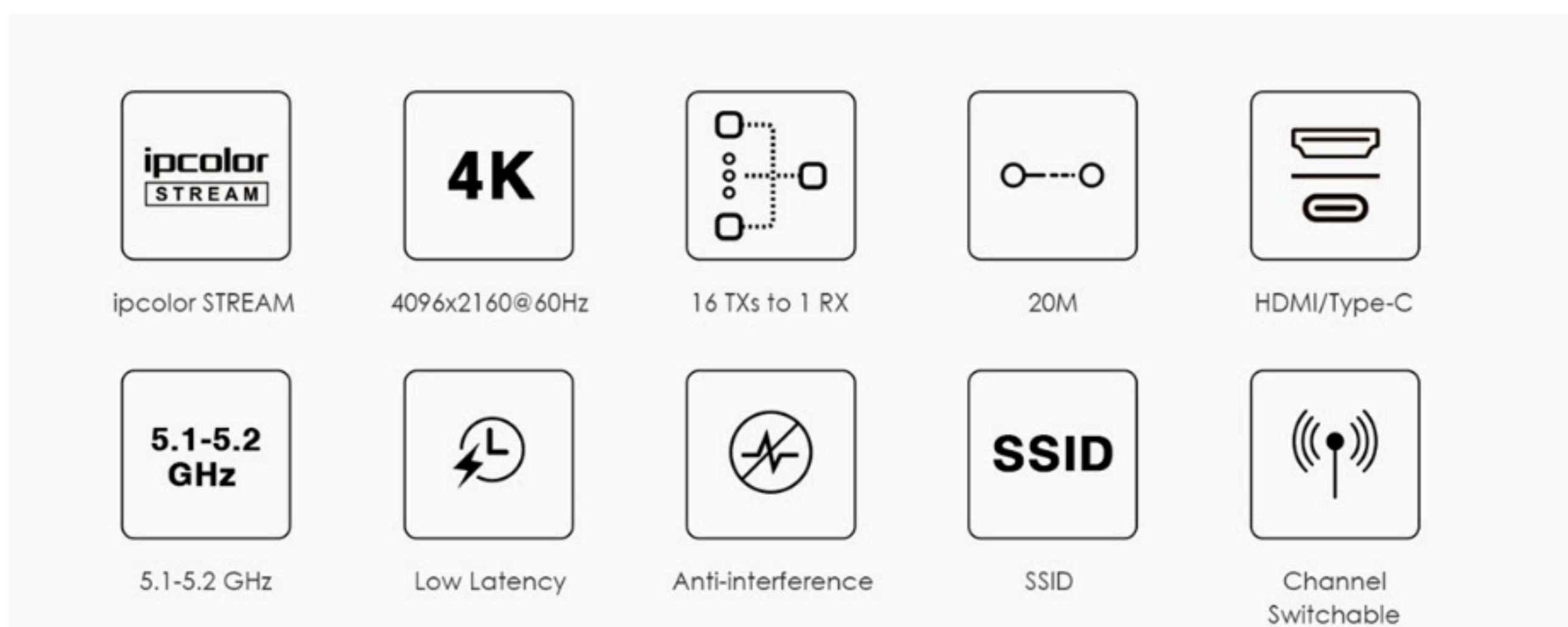
The 16TXs-to-1RX 4K60Hz Wireless HDMI Extender is a 5G wireless video transmission system that sends ultra-high-definition HDMI signals up to 4K at 60 Hz with low latency from as many as sixteen transmitters to a single receiver over short distances, making it suitable for multi-source conference rooms, education, and digital signage applications.

Video and audio performance

This extender supports HDMI 2.0 signals with HDCP 1.4/2.2 content protection, delivering maximum data rates up to 18 Gbps for smooth 4K60 video. It typically supports resolutions up to 4096×2160 or 3840×2160 at 24/30/50/60 Hz, and is backward-compatible with 1080p and 720p video, so it can work with both modern 4K sources and older Full HD devices. Audio is transmitted together with video over HDMI, allowing use with TVs, projectors, and AV receivers without extra audio cabling.

Hardware interfaces and power

Each transmitter and receiver provides a standard HDMI interface, with some models including an HDMI loop output on the transmitter for a local monitor near the source. The devices are usually powered by 5 V DC (around 2 A), with transmitter consumption under about 5–6 W and receiver consumption under about 4 W, so they can often be powered from included adapters or compatible USB power sources. Many kits also support IR pass-back, letting a remote control at the display side operate the source device, and some variants add USB for KVM-style keyboard and mouse control.

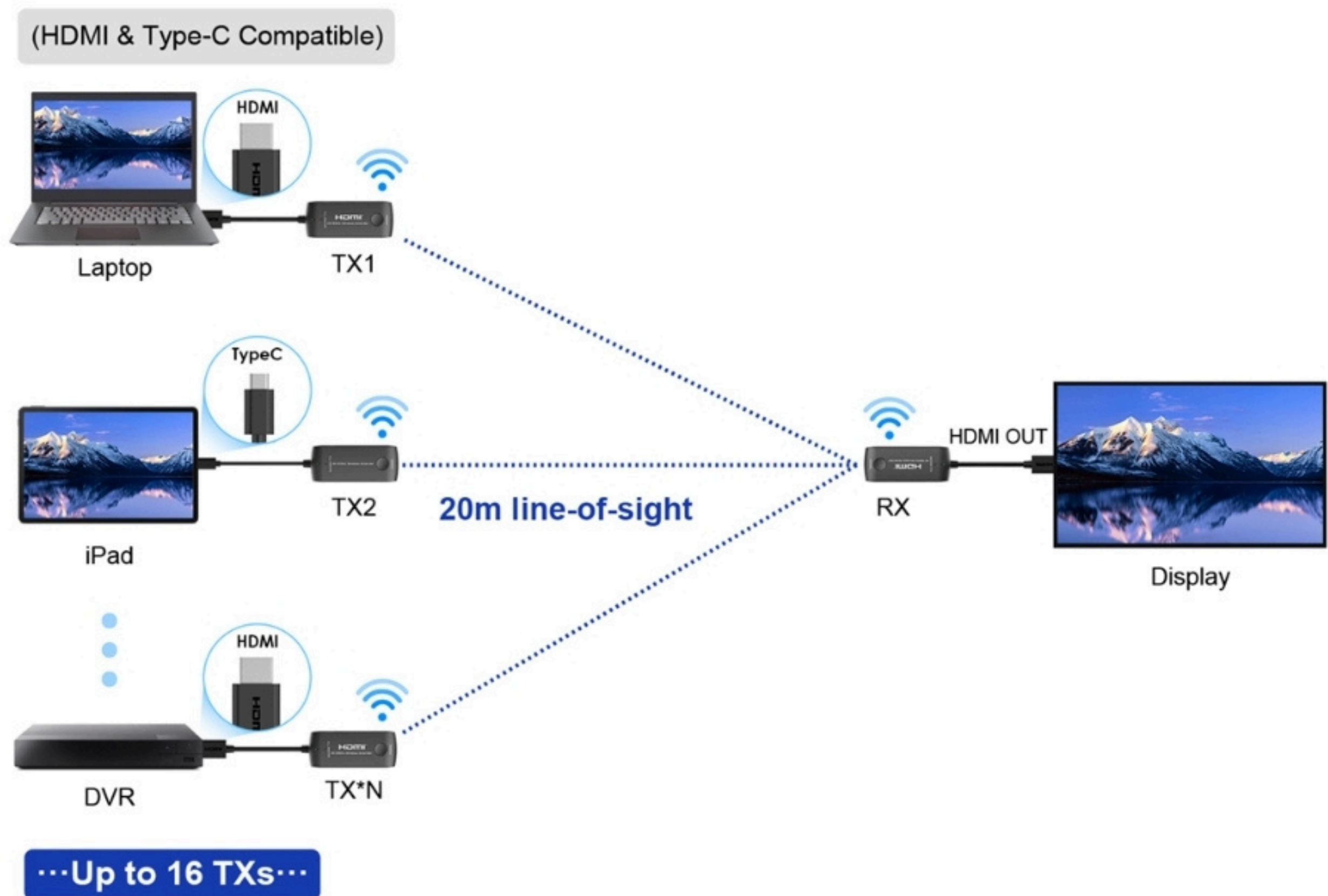


HDMI / Type-C Inputs Support Diverse Sources



Stable Wireless Transmission up to 20m

Reduces cable clutter while delivering reliable performance with plug-and-play convenience.





Key future-proof features

- Support for 4K@60 Hz resolution with HDMI 2.0 and HDCP 2.2 ensures compatibility with newer 4K sources and displays.
- Use of a 5G wireless band and advanced compression (such as ipcolor STREAM / H.265) offers better stability, lower latency, and stronger anti-interference than older 2.4 GHz solutions.
- Multi-transmitter (up to 16TXs-to-1RX) capability allows scaling to larger meeting spaces and flexible source switching without changing cabling.
- Backward compatibility with 1080p and 720p ensures the extender can remain in use as displays and sources are upgraded over time.

Specifications

- Voltage / current: Micro-USB power supply 5 V / 1 A.
- Power consumption: Transmitter < 4.5 W, Receiver < 3.5 W.
- HDMI version: HDMI 2.0.
- HDCP version: HDCP 1.4 / HDCP 2.2.
- Max transmission rate: 18 Gbps TMDS.
- Supported resolutions: 3840×2160 at 24/30/50/60 Hz (YUV 4:4:4, 4:2:2 and RGB), 1080p@50/60 Hz, 720p@50/60 Hz, 1920×1200@60 Hz.
- Input / output TMDS signal level: 0.7–1.2 Vp-p (TMDS).
- Input / output DDC signal level: 5 Vp-p (TTL).
- Wi-Fi frequency band: 5.18–5.24 GHz (5G band).
- Transmission distance: ≤ 20 m (line-of-sight, indoor).
- Latency: About 100–250 ms.
- Connection type: Supports up to 16 transmitters to 1 receiver (16TXs-to-1RX) in the series design; base unit is one-to-one.
- SSID pairing: Supported (secure pairing between TX and RX).
- ESD protection: Contact discharge level 3, air discharge level 3, standard IEC61000-4-2.
- Working temperature: -20 °C to 50 °C.
- Storage temperature: -30 °C to 70 °C.

