

#### Product Overview

Xentino MRC3 Router is a new but professional router in the realm of 5G/LTE aggregation routers and outdoor live-streaming equipment solutions. This article delves into the origins of the Xentino MRC3 Router brand, explores the purpose behind designing and manufacturing 5G aggregation routers and highlights the features of their flagship product MRC3 5G/LTE Aggregation Router. With its portability, extended outdoor usage capabilities and support for various streaming protocols, the MRC3 5G/LTE aggregation router aims to enhance the networking experience for outdoor live-streaming enthusiasts.

#### Unleashing the Power of Connectivity Outdoors

The MRC3 5G/LTE Aggregation Router stands out as Xentino's flagship product, embodying the our commitment to innovation and quality. This portable router is designed for outdoor use, boasting an impressive battery life that spans 6-8hours, ensuring uninterrupted connectivity during extended outdoor activities.

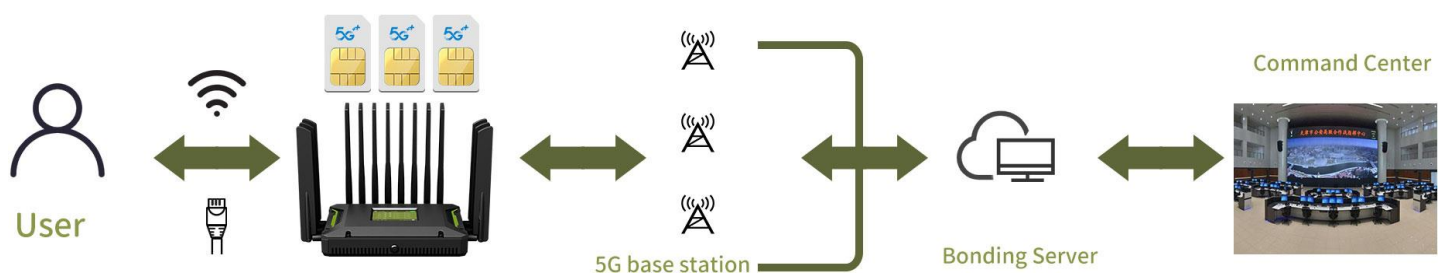


#### Advantages

One of its key features is its support for various streaming protocols, including RTMPS and SRT, catering to the diverse needs of outdoor live streaming.

With RTMPS (Real-Time Messaging Protocol Secure) support, the MRC3 router ensures the security of live streams, encrypting the communication between the device and the streaming server. Simultaneously, SRT (Secure Reliable Transport) support enhances reliability by optimizing video streaming performance over unpredictable networks, making it an ideal choice for outdoor broadcasting in varying conditions.

We envision a future where users have a myriad of options for their outdoor live-streaming equipment. By introducing the MRC3 5G/LTE aggregation bonding router, our company aims to diversify the market and empower users with a reliable, portable, and feature-rich solution. This router opens up new possibilities for content creators, journalists, and outdoor enthusiasts who rely on robust network connectivity for their live-streaming endeavors.



## Main Features

### Bandwidth Bonding

Bandwidth bonding combines data at the packet level, allowing you to aggregate the speed of multiple connections. This is particularly useful in bandwidth-scarce situations, such as at remote sites or in moving vehicles. The technology also enables branches to connect to headquarters at higher speeds.

### Forward Error Correction (FEC)

FEC is designed to provide packet loss protection while minimizing bandwidth consumption. When WAN replicates actual packets smoothly, FEC sends additional reserved packets that can be used to mitigate the impact of packet loss through interpolation.

### Wireless LAN Support

MRC3 allows to make wireless LAN connection. IEEE 802.11ac supported 2.4GHz(600Mbps) + 5.8GHz(1200Mbps) wifi card inside.

### Data Traffic Control Selection

Modern networks carry various types of traffic, such as video streams, ERP sessions, HTTP sessions, etc. Depending on your deployment, you may need to prioritize certain types of traffic while limiting or even blocking other traffic. MRC3 allows you to control the transmission of different types of traffic in your network.

### Local Area Network (LAN) Networking

In real-world work environments, there is often a need to access remote data, such as live broadcasting and remote offices. This technology seamlessly combines networks from different LANs.

### Private Cloud

This technology allows customers to set up their own cloud space, making it convenient for access anytime, anywhere, and facilitating file sharing within the enterprise.

Features	Content
Support for Multiple Networks	SIM modules can be selected based on the region, including 3G/4G/5G networks (also can replaceable global 5G modules)
Industrial-Grade Design	High-performance industrial-grade wireless module; High-performance industrial-grade 64-bit quad-core 1.8GHz processor; Supports low-power modes, including sleep mode, timed online/offline mode, and timed power on/off mode; Metal shell with IP30 protection level, suitable for industrial control field applications; DC 12V power input.
Stable and Reliable	Software system watchdog, power voltage detection to ensure system stability; Comprehensive external network online detection, dedicated network online detection, anti-disconnection mechanism to ensure terminal data is always online; Real-time dynamic refresh effectively solves the "false connection" and "dead connection" phenomena in wireless networks; Ethernet interface with built-in 1.5KV electromagnetic isolation protection; SIM/UIM card interface with built-in 15KV ESD protection; Reverse power protection, overvoltage protection, overcurrent protection.
Standard and User-Friendly	Provides Ethernet LAN and WAN, WIFI interfaces for direct connection to serial devices, Ethernet devices, and WIFI devices; Intelligent data terminal, enters data transmission state upon power-on; Easy to use, flexible, with multiple working mode choices; Convenient system configuration and maintenance interfaces (including local and remote WEB, SYSLOG, CLI, SSH Telnet, SMS, TR-069, SNMP, network management platform).
Rich Interfaces	3 RJ45 Gigabit LAN ports, 1 RJ45 Gigabit WAN port; (WAN RJ45 can be converted to LAN RJ45 port, making it 4 LAN RJ45 ports); Optional: wireless WiFi, GPS positioning, SIM*3 routes.
Powerful Functions	Supports 3G/4G/5G WAN connection, WiFi client connection, wired connection (Cable, xDSL, upstream router, etc.); Supports MIMO; Supports WAN (microcell, WiFi client, wired) link failure switching backup, load balancing, and link bundling; Supports VPN client (PPTP, L2TP, IPSEC, GRE, OpenVPN, DMVPN, n2n, frp), supports VPN server (IPSEC, PPTP, L2TP, OpenVPN)

Features	Content
Powerful Functions	Supports local and remote online upgrades, import/export configuration files; Supports NTP; Supports various domestic and foreign DDNS; Supports MAC address cloning, PPPoE server; WiFi supports 802.11b/g/n; Supports various WiFi modes such as AP, AP Client, repeater, relay bridge, and WDS (optional); WiFi supports various encryption methods such as WEP, WPA, WPA2, supports RADIUS authentication, MAC address filtering, and other functions; Supports various online/offline trigger modes, including SMS, voice call ringing, serial data, network data trigger, and timed schedule online/offline mode; Supports APN/VPDN; Supports multiple DHCP servers and DHCP clients, DHCP binding MAC addresses, DDNS, firewall, NAT/NAPT port mapping and conversion, DMZ host, QoS, traffic statistics, real-time display of data transfer rates, etc.; Supports SPI firewall, VPN traversal, access control, URL filtering, etc.; Static routing and dynamic routing; IPv6.
Excellent Firewall Features	Supports IP and MAC address binding, virtual host, port mapping, content filtering, and other functions.
SMA Antenna Interface	Replaceable high-gain antenna; Optional interfaces include TNC, N-head antenna (requires adapter).

## Hardware

<b>Model</b>	<b>MRC3</b>
<b>CPU</b>	Qualcomm ARM-A53 Quad-Core CPU 1.8GHz (Qualcomm IPQ6010)
<b>Memory</b>	2GB DDR4
<b>SPI Flash Memory</b>	8MB
<b>Storage</b>	4GB EMMC
<b>5G/4G LTE Module</b>	3x5G Module (1x5G + 2x4G/LTE Module optional)
<b>Wireless</b>	IEEE802.11ac (2.4GHz(600Mbps) + 5.8GHz(1200Mbps))
<b>Ethernet</b>	3xRJ45 LAN Gigabit Ethernet 1xRJ45 WAN Gigabit Ethernet Total wired network bandwidth 6.25Gbps
<b>LCD Display</b>	3.5-inch SPI IPS color display. Can display battery level, network speed, server address, WiFi status, etc.
<b>Backend Management</b>	Support Web-end Management or HTTP API third-party docking
<b>SIM Card Hot Swap</b>	Support
<b>WIFI Range</b>	Within 15 meters
<b>Power Adapter</b>	DC/12V 3A
<b>Power Consumption</b>	8-15W
<b>Battery Capacity</b>	8.4V * 10000mAh(84WH)
<b>Operating Time</b>	6-8 hours, depending on the usage environment

### Different View (back, front, side, top)



### Package Content



MRC3



Case



Hot Shoe



Power Supply



Antenna