Moxa Remote Connect



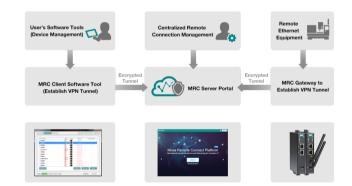
- Remote connection management platform for secure remote access



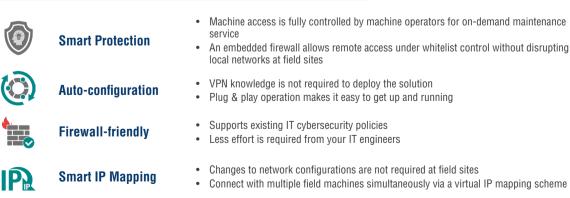
- $\,>\,$ Security with embedded firewall and whitelist remote access control
- > End-to-end data encryption
- > Auto virtual IP mapping eliminates the need for field IP management
- > Transparent tunnels suitable for existing software tools
- > Flexibility for defining the relation between remote connections

: Overview

Moxa Remote Connect (MRC) is an easy-to-use, secure, and versatile networking solution designed to seamlessly bridge field devices, engineers, and application servers together over the Internet for industrial applications. The solution combines MRC Server, MRC Gateway, and MRC Client. MRC Server is a connection management platform that determines how the MRC Gateways and MRC Clients are related. The MRC Gateway is a secure gateway that connects Ethernet-ready devices to MRC server portals. MRC Client is a software tool for connecting an engineer's laptop to the MRC server portal. MRC Server administrator manages all of these connections through a secure HTTPS web console.



: Featured Highlights



: User Scenarios

The MRC solution supports a variety of connection relations, including 1-to-1 connections, multiple-to-multiple connections, and LAN-like site-to-site networking infrastructures.

Scenario 1:

On-demand remote maintenance, diagnosis, and troubleshooting

Scenario 2:

Continuous remote monitoring minimizes onsite maintenance trips

Scenario 3:

LAN-like site-to-site secure network infrastructure

: MRC Software Specifications

MRC Server Software

Amazon AWS EC2: Supports Amazon AWS EC2 service (can be downloaded from the Amazon AWS Marketplace) Licensing: Apply for an MRC Server License from Moxa's channels before activating your software portal

MRC Gateway Specifications

Interface

RJ45 Ethernet Ports: 2, 10/100BaseT(X) auto negotiation speed USB Host Port: USB 2.0 compliance

LED Indicators: USB, Power, Internet, Cloud, Key, Cellular Signal Digital Input:

- +13 to +30 V for state "1"; -30 to +3 V for state "0"
- · Max. input current: 8 mA

Relay Output:

One relay output with current-carrying capacity of 1 A @ 24 VDC

Cellular Interface

Cellular Port: GSM/GPRS/EDGE/UMTS/HSPA/LTE Cellular Antenna Connectors: 2, SMA (female), MIMO for LTE, antenna diversity for WCDMA

Band Options:

• B2 (1900 MHz) / B4 (AWS) / B5 (850 MHz) / B13 (700 MHz) / B17 (700 MHz) / B25 (1900 MHz)

- UMTS/HSPA 2100/1900/AWS/850/900 MHz
- Universal guad-band GSM/GPRS/EDGE 850/900/1800/1900 MHz LTE Data Rate:
- 20 MHz bandwidth: 100 Mbps DL, 50 Mbps UL

• 10 MHz bandwidth: 50 Mbps DL, 25 Mbps UL HSPA Data Rate: 42 Mbps DL, 5.76 Mbps UL (Category 24, 6) EDGE Data Rate: 237 kbps DL, 237 kbps UL (Class 10, 12) GPRS Data Rate: 85.6 kbps DL, 42.8 kbps UL

Power Requirements

Input Voltage: 12 to 36 VDC (3-pin terminal block, V+, V-, SG) Input Current: 0.62 A (max.) @ 12 VDC Power Consumption: 7.44 W (with cellular module)







MRC Client Software

Operating Systems: Supports Windows-based computers running Windows 7/8/10 (32-bit or 64-bit) Note: The MRC Client Software can be downloaded from Moxa's website.

Physical Characteristics

Housing: Metal Dimensions: 101 x 27 x 128 mm (3.98 x 1.06 x 5.04 in) Weight: MRC-1002-T: 425 g (0.94 lb) MRC-1002-LTE-US-T: 470 g (1.04 lb)

Standards and Certifications

Safety: UL 61010-2-201 EMI: FCC Part 15B Class A EMC: EN 55032/24, EN 61000-6-2/6-4 EMS: IEC 61000-4-2/3/4/5/6/8 Shock: IEC 60068-2-27 Free Fall: IEC 60068-2-32 Vibration: IEC 60068-2-6

MTBF (mean time between failures)

Time: MRC-1002-T: 954,531 hours MRC-1002-LTE-US-T: 561.262 hours Standard: Telcordia (Bellcore) Standard TR/SR

Warranty

Warranty Period: 5 years Details: See www.moxa.com/warranty

Ordering Information

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Available Models

MRC-1002-T: Moxa Remote Connect gateway with 2 Ethernet ports, -40 to 75°C operating temperature MRC-1002-LTE-US-T: Moxa Remote Connect gateway with 1 LTE cellular port and 2 Ethernet ports, -40 to 70°C operating temperature MRC-Server License: License to activate the user-hosted Moxa Remote Connect server; supports 10 concurrent online nodes MRC-Server Node 25: License for adding 25 additional concurrent online nodes MRC-Server Node 100: License for adding 100 additional concurrent online nodes