RICON Technology provides hardware (3G/4G routers) and software (M2M Management Platform) for wireless digital signage applications.

Digital signage becomes more and more popular nowadays for its obvious benefits. RICON provides a 3G/4G cellular wireless approach for digital signage owners so that technical guys need to go to the field frequently to do maintenance and updates contents of those signage board. This solution uses latest cellular technologies. RICON connects screen player with contents server in Internet via wireless network. Administrator can update up-to-date contents of every screen remotely over 3G/4G cellular network in office, and can monitor status of each screen as well. This wireless connection is secure, stable, and reliable. And a lot of maintenance fee can be saved for owners who have many spotty digital signage sites. Now, digital signage owners can put the digital signage to anywhere as long as the cellular signal is available. And because the connection is wireless, no network construction work is needed.

RICON wireless networking solution combines all most advanced requirements and provides secure, reliable, flexible and cost effective networking solutions. RICON M2M Management Platform, working together with RICON routers as a part of the RICON solution, monitors connectivity on the wireless cellular network, informs about network availability, signal strengths also controlling devices remotely.

**HOW IT WORKS**

**CASE STUDY: wireless digital signage**

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Option 1: single module/ single SIM

Option 2: single module/ dual SIM

Option 3: dual module/ dual SIM

Option 2: single module/ dual SIM

Option 3: dual module/ dual SIM

RICON M2M Terminal Management Platform

RICON Technology
cellular - VPN - 3G/4G routers

Specifications
- Dual module/WAN/Wi-Fi multiple network mode backup
- WAN port support PPPoE, static IP, DHCP client
- LCP/ICMP/flow/heartbeat check, ensure network usability
- SNMP network management, NTP support
- Local & remote firmware update
- Local & remote log check
- Supports DNS proxy and Dynamic DNS (DDNS)
- Supports timing operation

Wi-Fi Characteristics
- Standard: IEEE 802.11b/g/n
- WEP, WPA and WPA2 encryption
- WPS key
- AP, Client, station, bridge mode support

Interfaces
- 4×10/100Mb LAN interface
- 1×10/100Mb WAN interface
- 1× RS-232 console port(RJ45)
- 2× SMA-K antenna interface
- 2× SMA-K antenna interface (Wi-Fi)
- 2× Standard SIM/R-UIM interface
- 1× Standard DC power interface

Routing Protocols
- Static route
- RIPv2/OSPF dynamic route

Firewall & Filtering
- IP packet/Domain/MAC filter
- NAT
- DMZ

Device Management
- Local or remote web browser (IE v8 or above)
- CLI/Telnet command
- M2M Remote Terminals Management Platform (optional)
- SSH config (optional)

Available Cellular Network
- LTE 800/900/1800/2100/2600MHz
- UMTS/HSPA+/900/2100MHz
- GSM/GPRS 900/1800/1900MHz
- HSPA+/HSUPA/HSDPA/WCDMA/UMTS
- 2100/1900/900/850/800MHz
- EDGE/GPRS/GSM 1900/1800/850MHz
- CDMA 2000/EVDO Rev.A 800MHz

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Status LEDs
- System
- Power
- WLAN (Optional)
- WAN
- LAN (LAN1~LAN4)
- RF
- NET

Ethernet Standard
- IEEE 802.3
- IEEE 802.3u

Other
- 176mm x 105mm x 25mm
- Weight: 510g
- Temperature: -30~+70

RICON M2M Remote Terminals
Management Platform
provides full control of multiply 3G routers for diagnostics and maintenance of all the mobile devices on the network.

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