

## DETAILS

- LTE CAT-6 with Download Speeds of up to 300 Mbps
- Four Gigabit Ethernet Ports
- Band B28 700 MHz (Telstra 4GX and Optus 4G Plus)
- Dual SIM card for backup redundancy
- Automatic failover between ADSL/NBN and 4G LTE
- MIMO LTE Technology
- Dual Band Concurrent WiFi 2.4 GHz and 5 GHz
- Powerful ARM Cortex A7 900MHz CPU
- USB3.0 cellular interface compatible with modems delivering super-fast speeds of up to 5Gbps
- DIN rail mount
- Fully operational on telstra.corp APN

3G + 4G + 4GX Modem

# Dual SIM Dual Band 4-Port Gigabit Router (CM510Q-W)

The Comset CM510Q-W is an industrial grade LTE CAT-6 Modem Router with download speeds of up to 300 Mbps and upload speeds of up to 50 Mbps. With four Gigabit Ethernet ports and concurrent 2.4GHz and 5GHz dual band WiFi, it provides a powerful and rapidly deployable internet solution to commercial customers and small to medium businesses.

## SECURE CONNECTIVITY

The Comset CM510Q-W is an innovative router powered by the latest ARM Cortex A7 900MHz CPU. It features dual SIM card slots for backup redundancy, dual band WiFi 802.11ac to help reduce WiFi traffic congestion and interference and ensure a fast and reliable service, 3 x Gigabit LAN ports for fast wired connections, 1 Gigabit WAN/LAN port, as well as a GPIO with two digital input ports and one digital output port.

Other features include VPN IPSEC, PPTP (Server and Client), L2TP and OpenVPN to establish a secure connection over the 3G/4G network.



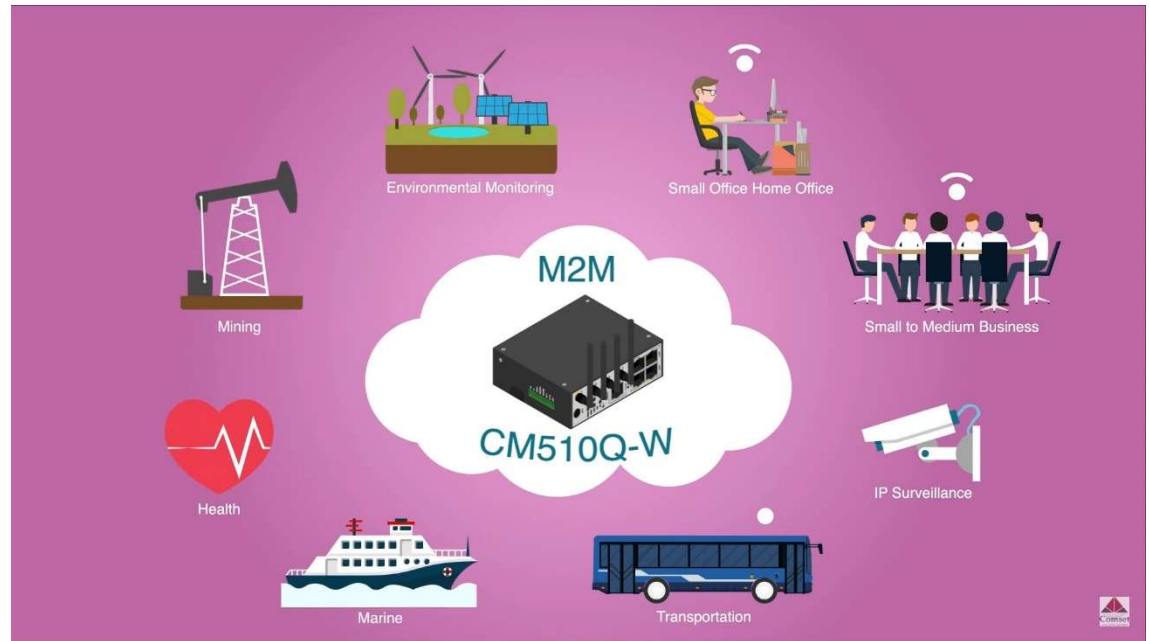
## RUGGED DESIGN

The innovative design, easy integration and rich built-in features make the CM510Q-W the router of choice for a wide range of business and commercial applications, including SOHO, SMB, industrial automation, building automation, security, surveillance, transportation, health, mining and environmental monitoring.

## Features and Benefits

### BASIC FEATURES

- Built-in 4G LTE-A CAT-6 industrial cellular module
- Supports 256-QAM
- Certified by Telstra as LTE CAT 13 (DL) and LTE CAT 6 (UL)
- Speeds of up to 390 Mbps DL and 50 Mbps UL
- MIMO LTE Technology (2x2, 4x2, DL)
- Supports Band B28 (700MHz)
- Powerful Cortex A7 900 MHz CPU
- Built-in 4-Port GBE Switch
- Dual SIM card slots
- DIN-rail mounting for industrial applications (DIN-rail bracket included)
- Serial RS232 to TCP/IP
- 2 x Digital Input & 1 x Digital Output
- Shock and vibration resistant



### ADDITIONAL FEATURES

- Supports DNS proxy and Dynamic DNS (DDNS)
- Rapid service deployment applications
- VPN (OpenVPN, IPSEC, L2TP, GRE, PPTP Client and Server)
- TCP/IP protocol stack, Telnet, SSH, HTTP, PPP, PPPoE, network protocol
- Automatic failover between ADSL/NBN and 4G LTE
- Auto-dial feature, keep system stable
- WDT watchdog, multi-link detection
- Bandwidth limitation function to limit Download and Upload speeds
- Concurrent dual band 2.4 GHz and 5 GHz
- Always on-line: on-line detection and automatic redial to ensure continuous connection
- 2 x MIMO cellular antennas & 2 x MIMO WiFi dual band antennas included
- On-demand dialing, including time on/off-line
- Virtual data and private network (APN/VPDN)

# Specifications

## WIRELESS

### Cellular Frequency

- 4G LTE FDD
  - B1 (2100)
  - B3 (1800)
  - B5 (850)
  - B7 (2600)
  - B8 (900)
  - B20 (800)
  - B28 (700)
  - B32 (1500)
- 4G LTE TDD
  - B38 (2600)
  - B40 (2300)
  - B41 (2500)
- 2 x CA Carrier Aggregation
  - B1+B1/B5/B8/B20/B28
  - B3+B3/B5/B7/B8/B20/B28
  - B7+B5/B7/B8/B20/B28
  - B20+B32
  - B38+B38
  - B40+B40
  - B41+B41
- DC-HSPA+/HSPA+/HSPA/WCDMA including B1/B2/B5/B8

### WLAN

- Standard: IEEE 802.11 b/g/n/ac
- Security: WEP, WPA and WPA2 encryption
- Mode: AP, Client, station, bridge mode support

### GPS (Optional)

- GPS sensitivity: -160 dBm
- GPS accuracy: 2.5 m CEP
- Update Rate: 1 Hz @ 5 Hz
- Time to First Fix: Cold Status 27 s, Hot status 1 s
- Protocol: NMEA-0183 2.3 V

### VPN Tunnel

- IPSec
  - PPTP client/server
- L2TP client
- GRE
- OpenVPN
- Route Protocol
- Static route
- RIPv2/OSPF dynamic route

## Ethernet Standards

- 10/100/1000 Base-T (IEEE 802.3)
- Mode: Full or half duplex (self-adaptive)

## Firewall and Filtering

- IP packet/Domain/MAC address filtering
- NAT
- DMZ

## Route Protocol

- Static route
- RIPv2/OSPF dynamic route

## INTERFACES

### Ports

- 4 × Gigabit Ethernet
  - 3 x LAN
  - 1 x WAN/LAN
- 1 × Console Port
- 4 × SMA-K antenna interface
- 2 × Standard SIM/R-UIM Slot
- 1 x expansion USB 3.0
- 8 Pins Terminal Block contents:
  - 1 × RS232
  - 2 × Digital Input
  - 1 × Digital Output
  - 1 × DC power interface (Anti-reverse)

## LED

- PWR
- WLAN
- Signal
- ERR

## POWER

### Power supply

- 7.5 VDC – 32 VDC

### Power consumption

- Idle mode:
  - 400 mA @ 12 VDC
- Operation mode:
  - 460 mA @ 12 VDC

## SOFTWARE

### Device Management

- Local or remote web browser
- CLI/Telnet command
- M2M management platform (optional)
- SSH configuration (optional)

## PHYSICAL

### Hardware

- CPU: Cortex A7 Core 900 MHz/867 Mbps
- RAM: 1 Gb DDR3
- Flash: 128 Mb

### Temperature

- Storage: -40°C to 85°C
- Operating: -30°C to 70°C

### Humidity

- 95% Maximum (non-condensing)

### Dimensions

- 132 mm x 112 mm x 44 mm

### Weight

- 400 g

## OTHER

### Warranty

- 1 Year

### Certifications

- RCM
- CE
- RoHS
- Modem is approved by Telstra

### Package Contents

- 1 x CM510Q-W 4G Router
- 2 x Wi-Fi dual band rubber antennas
- 2 x 4G Magnetic base antennas
- 1 x Ethernet Cable
- 1 x Power Supply Adapter
- 1 x DIN Rail bracket