

# MaxComm

| Module Counter Specificationation |                         |   |                        |
|-----------------------------------|-------------------------|---|------------------------|
| Revision Number : V1.2            |                         |   |                        |
| Category                          | Feature & specification | Description   | Customer Comments      |
| Basical Information               | Model Name              | WR-112  |                        |
|                                   | Form Factor             | CPE   |                        |
|                                   | Dimension               | 170mm*155mm*25mm  |                        |
|                                   | Weight                  | TBD   |                        |
|                                   | Color                   | White   |                        |
|                                   | Launch time(PP)         | Already   |                        |
|                                   |                         |   |                        |
| ID&MD Model                       |                         |   |                        |
|                                   |                         |   |                        |
| Air Interface                     | Technical Standard      | Compatible with WCDMA, FDD-LTE 802.11 b/g/n   |                        |
|                                   | Frequency               | <ul style="list-style-type: none"> <li>LTE Band IV: 3GPP Rel. 8 Category 4 LTE FDD mode- whose operating frequency is 1710-1725 MHZ in the Uplink and 2110-2125 MHZ in the Downlink</li> <li>3G Band VIII of 900 MHz whose mandatory frequency is 910-915 MHz Uplink, 955-960 MHz Downlink</li> <li>3G: BAND II from 1900 whose mandatory frequency is 1850-1910 MHZ for the Uplink and 1930 - 1990 MHZ for the Downlink</li> <li>DC-HSPA + / HSPA + / HSPA / UMTS</li> <li>WLAN IEEE 802.11b / g / n 11 channels in the 2.4GHZ band</li> <li>GSM Band II / V / VIII (optional)</li> <li>EDGE / GPRS / GSM: 850/900 / 1900Mhz (optional)</li> </ul> |                        |
|                                   | WIFI                    | <p>RTL 8192, 2.4GHz, WIFI 2*2 MIMO, 802.11 b/g/n,</p> <ul style="list-style-type: none"> <li>IEEE 802.11 b, g, n</li> <li>WIFI Bandwidth 300 Mbps (IEEE 802.11 n)</li> <li>WIFI Bandwidth 54 Mbps (IEEE 802.11 g)</li> <li>WIFI Bandwidth 11 Mbps (IEEE 802.11 b)</li> </ul> <p>Encryption:</p> <ul style="list-style-type: none"> <li>AES, TKIP + AES</li> </ul> <p>Security Mode:</p> <ul style="list-style-type: none"> <li>WPA2.0 PSK</li> <li>WPA1.0 / WPA2.0 PSK</li> <li>Open</li> </ul> <p>2 SSID broadcast --only one SSID for Wi-Fi 2.4G by default, can be customized</p> <p>Connectivity 16 simultaneous devices</p>                    |                        |
| Performance                       | Maximum Data Throughput | <p>LTE</p> <p>Download speed or Downlink: 150 Mbps</p> <p>Upload Speed or Uplink: 50 Mbps</p> <p>Duplexing mode: FDD (Frequency Division Multiplexing)</p> <p>3G</p> <p>DC-HSPA +: Downlink 42 Mbps, Uplink 5.76 Mbps</p> <p>HSPA +: Downlink 21 Mbps (64QAM) / 28 Mbps (MIMO), Uplink 5.76 Mbps</p> <p>HSPA: Downlink 14.4 Mbps, Uplink 5.76 Mbps</p> <p>Technology: UMTS / HSPA / HSPA +</p>  | Theoretical peak rates |
| Hardware                          | Receive Diversity       | Support Receive Diversity   |                        |
|                                   | MIMO                    | Support DL 2x2 MIMO   |                        |
|                                   | BB Chipset              | Qualcomm MDM9207  |                        |
|                                   | RF Chipset              | Qualcomm WTR2965  |                        |
|                                   | WiFi Chipset            | RTL8192(802.11b/g/n)  |                        |
|                                   | Memory                  | 4Gb+2Gb   |                        |
|                                   | power consumption       | 18W   |                        |
|                                   | Power Voltage           | <ul style="list-style-type: none"> <li>Alternate AC Type = 100 to 240 VAC sensitive. Power cord with plug that complies with the standard used in Paraguay. C (CEE 7/16), or A (NEMA 1-15 USA 2 pins without ground pin). Maximum DC voltage for adapters: 5-12V / 1-1.5A. Battery solutions are also accepted</li> <li>Adapter is 12V/1A , not support battery.</li> </ul>   |                        |

|                                   |  |   |  |
|-----------------------------------|--|---|--|
| Hardware                          | USIM/SIM   | 2FF SIM card<br>support SIM/USIM/UIM,standard 6 PIN SIM card interface,<br>support 3V SIM card and 1.8V SIM card;internal<br>push-push SIM slot   |  |
|                                   | LED  | Power Indication LED, WAN Signal Strength, WiFi/WPS Indication LED, WAN/LAN Status LED, Internet Status LED,  |  |
|                                   | Internal LTE antenna   | 3 dBi at 1700 / 2100MHz frequency (AWS)<br>Efficiency> 45%  |  |
|                                   | External LTE antenna   | <ul style="list-style-type: none"> <li>It must provide two or more external antennas with a minimum gain of 2 dBi each. In case the equipment supports more than two antennas, you must provide all antennas for each equipment.</li> <li>Efficiency&gt; 40%</li> </ul>   |  |
|                                   | WiFi Antenna   | Built-in WiFi antenna<br>Gain 2 dBi<br>Efficiency> 50%  |  |
|                                   | Maximum Transmission Power for WIFI  | <ul style="list-style-type: none"> <li>18dBm in 11Mb/s</li> <li>14dBm(Max) en 11g mode</li> <li>14dBm in 72.2Mb/s</li> </ul>  |  |
|                                   | Maximum Transmission Power Cellular network  | LTE, 3G conforming to 3GPP Power class 3 standard   |  |
|                                   | Cellular Network Sensitivity   | LTE, 3G compliant with 3GPP standard  |  |
|                                   | Buttons  | POWER · Reset,WPS   |  |
|                                   | Slic   | SI32185   |  |
|                                   | Ethernet   | 4 WAN/LAN 10BaseT/100Base/1000Base automatic adaptive port<br>auto-negotiation RJ45 ports<br>IEEE 802.3 / 802.3u<br>Allow connection mode PPPoE + Dynamic IP, Dynamic IP, Static IP, WAN  |  |
|                                   | RJ11   | RJ11x1  |  |
|                                   | Reset  | Pinhole   |  |
|                                   | ESD  | ESD Protection circuit; Contact±8KV、Air±10KV  |  |
|                                   | Battery  | Not Support   |  |
|                                   | SW Update  | TR069 &FOTA&Local Update  | Please check the TR069 sheet for details |
|                                   | WIFI Mode  | AP+STA  |  |
|                                   | WIFI Security  | OPEN & WPA-PSK& WPA2-PSK & WPA-PSK/WPA2-PSK;  |  |
|                                   | SMS & Phone Book   | Not Support by default, can be customized   |  |
| Software                          | USB Function   | Support   |  |
|                                   | Voice  | <p>VoLTE &amp; CS Domain voice &amp; VOIP</p> <ul style="list-style-type: none"> <li>It must support the Telephony service with VoIP technology</li> <li>CS over UMTS / GSM networks (optional)</li> <li>One RJ11 port for telephone</li> <li>You must have pre-configured the proxy server address, proxy port, Registry server address, Registry server port, Domain name of the SIP server.</li> <li>SIP voice services <ul style="list-style-type: none"> <li>G.711a/G.711u/G.729</li> <li>CS voice services sobre UMTS/GSM networks (opcional)</li> <li>CSFB (opcional)</li> </ul> </li> </ul> |  |
|                                   | IPv4   | Support IPv4  |  |
|                                   | IPv6   | Support IPv6  |  |
|                                   |  | Protocol Operation: <ul style="list-style-type: none"> <li>-TCP, UDP, ICMP</li> <li>- DHCP Client / Server</li> <li>- DNS Proxy,-not support Dynamic DNS</li> <li>- DNS Relay or DNS Proxy</li> <li>- UPnP, IPv6 / IPv4 dual stack</li> <li>- VPN Passthrough</li> </ul>  |  |
|                                   | Firewall   | <ul style="list-style-type: none"> <li>Firewall Switch, Mac Filtering, LAN IP Filter, Special Applications, Settings, Port forwarding, DMZ, SIP ALG settings, UPnP settings, NAT settings, Domain name filtering, DDNS, triggering. PIN code management.</li> <li>--not support Special Applications, DDNS, triggering. Support SIP ALG and UPnP</li> </ul>   |  |
|                                   | Administration and Configuration   | <ul style="list-style-type: none"> <li>With configuration software and interfaces through the computer.</li> <li>Friendly Web Browser. Monitoring system.</li> <li>Diagnosis, Configuration and visualization via web browser.</li> </ul> <p>Supported Operating Systems: Windows XP, Windows Vista, Windows 7, Win 8, Win 10, Linux, Mac OS and later.</p> <p>Setup menu English<br/>TR069 Support</p>   |  |
|                                   | Application for administration from a cell phone   | <p>View signal strength and status. See the data traffic used and the SMS sent. Manage connected devices.</p> <p>Change SSID and password.</p> <p>--not support management APP for cell phone, only support web GUI.</p>  |  |
| Certification                     |  | Depends on customization, cost related  |  |
| Work Environment (minimum ranges) | Operating Temperature  | Normal: 0 ° to 40 °   |  |
|                                   | Storage Temperature  | -20 ° to + 55 °   |  |
|                                   | Humidity   | 5% to 95%   |  |
| Training                          | <ul style="list-style-type: none"> <li>It should include:<br/>configuration,<br/>programming, testing,<br/>firmware upload and<br/>equipment operation.</li> </ul> |   |  |
| Warranty                          | •365 days  |   |  |