

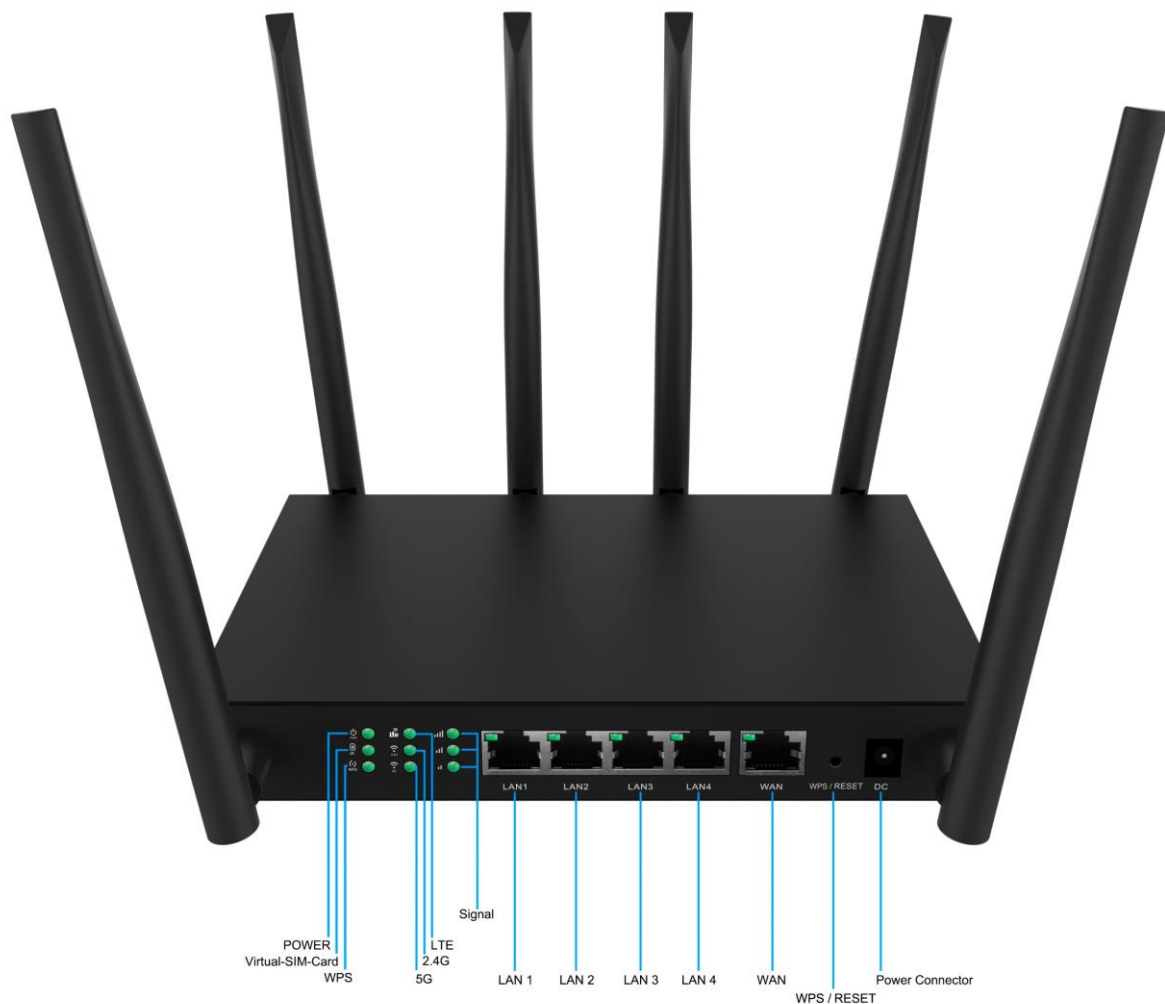
# Product Specifications

## [Solis Home-CPE 0001]

## 1. General Introduction

Solis Home – CPE0001 is a versatile wireless 4G LTE Cat.7 CPE that offers the Internet access through both physical SIM cards and vSIM powered by SIMO. It is fully compliant with IEEE 802.11b/g/n/ac standards. The Solis Home LTE features an embedded 4G LTE MTK module capable of supporting high transmission rates of up to 1200Mbps across both the 2.4GHz and 5GHz WiFi bands.

## 2. Industrial Design





### 3. Hardware Specifications

#### 3.1. General Specifications

| Specifications          |                                                                                                                                                         |                      |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Product Name</b>     | Solis Home                                                                                                                                              |                      |
| <b>Model</b>            | CPE-0001                                                                                                                                                |                      |
| <b>Dimensions</b>       | 185*130*30mm                                                                                                                                            |                      |
| <b>Weight</b>           | 836g without packaging<br>1127g with packaging                                                                                                          |                      |
| <b>Shell material</b>   | Metal                                                                                                                                                   |                      |
| <b>Color</b>            | Black                                                                                                                                                   |                      |
| <b>Led</b>              | Power Indicator LED<br>VS (vSIM) Indicator<br>LTE Indicator<br>2.4GHz WiFi<br>5GHz WiFi<br>WPS Indicator<br>Signal LED (3 LED)<br>WAN/LAN Indicators    |                      |
| <b>Temperature</b>      | Working: 0°C~40°C<br>Storage: -30°C ~ 70°C                                                                                                              |                      |
| <b>Humidity</b>         | Working: 5% - 90%                                                                                                                                       |                      |
| <b>Power</b>            | 12V 1.5A DC                                                                                                                                             |                      |
| <b>Consumption</b>      | ON State: MAX. 7W<br>OFF State : MAX. 0.5W                                                                                                              |                      |
| <b>LAN</b>              | 4 x RJ45 10M/100M/1000M LAN<br>Ethernet                                                                                                                 |                      |
| <b>WAN</b>              | 1 x RJ45 10M/100M/1000M WAN<br>Ethernet                                                                                                                 |                      |
| <b>SIM</b>              | Micro SIM and vSIM (powered by SIMO)                                                                                                                    |                      |
| <b>Buttons</b>          | Reset/WPS                                                                                                                                               |                      |
| <b>LTE Antenna</b>      | 2 External Antennas                                                                                                                                     |                      |
| <b>WiFi Antenna</b>     | 4 External Antennas                                                                                                                                     | 2 X 2.4GHz, 2 X 5GHz |
| <b>General Features</b> | RFC0768 UDP<br>RFC0791 IP<br>RFC0792 ICMP<br>RFC0793 TCP<br>RFC0826 Ethernet ARP<br>RFC0894 IP over Ethernet<br>RFC0922 Broadcasting Internet Datagrams |                      |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | RFC0950 Internet Standard Subnetting<br>IEEE802.3 Ethertype<br>RFC2516 PPPoE<br>RFC1662 PPP in HDLC-like Framing<br>RFC1332 PPP Internet Protocol Control Protocol<br>RFC1042 Transmission standard over IEEE 802 Networks<br>DHCP server & client<br>NAT, NATP and ALG<br>DMZ and Port forwarding (Virtual server)<br>PPTP, L2TP VPN<br>IGMP proxy and MLD for IPTV<br>Logs and statistics<br>TR-069 remote management<br>Flexible and secure SPI Firewall<br>Denial of Service (DoS) protection<br>Port filtering, IP filtering, MAC filtering and URL filter<br>QOS Flow Control<br>DDNS<br>IPV6<br>Static route<br>SNTP Date/time update from Internet Time Server<br>WEB GUI<br>USSD<br>WPS<br>Standby Mode<br>Captive Portal |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.2. Main-board Specifications

| Specifications      |                    |                    |
|---------------------|--------------------|--------------------|
| <b>Main CPU</b>     | RTL8197FH-VG5-CG   | Single Core 1.0GHz |
| <b>WLAN Chipset</b> | RTL8812FR-CG       |                    |
| <b>ETH Chipset</b>  | RTL8367RB-VB-CG    |                    |
| <b>Memory</b>       | 128MB              | 128MB 16-bit DDR2  |
| <b>Flash</b>        | 16MB SPI NOR FLASH |                    |

### 3.3. LTE module Specification

| Specifications |                                            |                        |
|----------------|--------------------------------------------|------------------------|
| <b>Model</b>   | SIM6600-M2                                 |                        |
| <b>Chipset</b> | MTK 4-core 64-bit ARM Cortex-A53 processor |                        |
| <b>Memory</b>  | Flash 8GB RAM 1GB                          | eMMC + LPDDR3          |
| <b>OS</b>      | Android 11                                 | MTK Simplified Version |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                |  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>LTE downlink</b> | Cat7 (301.5 Mbps)                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>LTE uplink</b>   | Cat13 (150.8 Mbps)                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>TDD Bands</b>    | B34/B38/B39/B40/B41                                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>FDD Bands</b>    | B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28/B29/B30/B66/B71                                                                                                                                                                                                                                                                                                                       |  |
| <b>2CA</b>          | 1+1; 1+3; 1+5; 1+7; 1+8; 1+18; 1+19; 1+20; 1+26; 1+28; 1+40; 2+2; 2+4; 2+5; 2+12; 2+13; 2+17; 2+28; 2+29; 2+66; 2+71; 3+3; 3+5; 3+7; 3+8; 3+19; 3+20; 3+28; 3+40; 4+4; 4+5; 4+12; 4+13; 4+17; 4+28; 4+29; 4+66; 4+71; 5+5; 5+7; 5+30; 5+40; 5+66; 7+7; 7+8; 7+20; 7+28; 8+8; 8+38; 8+40; 8+41; 12+30; 2+66; 13+66; 20+38; 25+25; 25+26; 26+41; 29+30; 29+66; 38+38; 40+40; 41+41; 66+66; 66+71 |  |
| <b>WCDMA Bands</b>  | B1/B2/B4/B5/B8                                                                                                                                                                                                                                                                                                                                                                                 |  |

### 3.4. WiFi & Ethernet Specification

| Specifications       |                                          |
|----------------------|------------------------------------------|
| <b>Chipset</b>       | RTL8197FH-VG5-CG                         |
| <b>WiFi Protocol</b> | 802.11a/b/g/n/ac (2*2)                   |
| <b>ETH Protocol</b>  | 802.3 u/ab/az/x                          |
| <b>Frequency</b>     | 2.4GHz/5GHz                              |
| <b>Connections</b>   | 32                                       |
| <b>Speed</b>         | 2.4GHz WiFi: 300Mbps; 5GHz WiFi: 866Mbps |
| <b>MIMO</b>          | 2*2 MU-MIMO                              |
| <b>Distance</b>      | up to 50m indoors                        |