

Q



Support > Documentation > Routers > Access Routers > AR2200 > Learn About Products > Hardware Description

Hardware Description

Translation

Favorite

AR100, AR120, AR150, AR160, AR200, AR1200, AR2200, AR3200, and AR3600

Download

Updated: 2019-11-21

This document describes hardware components of the AR, including the cabinet, chassis, power supply facilities, fan modules, cards, cables, and pluggable modules for interfaces. You can find useful information about AR hardware components from this document.

About This Document

Using the Hardware Query Tool to Query Hardware Description Information

Using the Hardware Configuration Tool to Calculate Power Consumption of Equipment

Version Requirements for Components

Chassis

Power Supplies

Fan Modules

Cards

Basic Concepts of Cards

SRU

Ethernet LAN Card

Ethernet WAN Card

E1/T1 Card

E3/T3 Card

Card

3G/LTE Card

3G-HSPA+7 (3G WCDMA HSPA+7 Interface Card)

Synchronous/Asynchronous

3G-EVDO (3G CDMA2000 EVDO Interface Card)

1LTE-L (WCDMA LTE Interface Card) Search in this manual

Rate and give feedback:

1LTE-L (WCDMA LTE Interface Card)

Card Overview

The 1LTE-L is a high-speed wireless WAN access module that connects to an LTE network to provide high-speed wireless data transmission for an enterprise.

A 1LTE-L card can be installed in a SIC slot of a router.

Figure 7-120 shows the appearance of a 1LTE-L card.

Figure 7-120 1LTE-L card appearance



Version Mapping

Table 7-280 lists the device models and software versions supporting the 1LTE-L.

Table 7-280 Version mapping

| Card Name | Device Model |
|--|---|
| 1LTE-L | AR1200 series (All models in this series except the AR1220C and AR1220-8GE) |
| NOTE: This card is supported in V200R005C00 and later versions. | AR2200 series (All models in this series except the AR2201-48FE and AR2202-48FE) AR3200 series AR3600 series |

Functions and Features

Previous

Related

Documents

AR100, AR120, AR150, A R160, AR200, AR1200, A R2200, AR3200, and AR3 600 Hardware Description

AR Router Personal Data Description

AR100, AR120, AR150, A R160, AR200, AR1200, A R2200, AR3200, and AR3 600 Product Description

Share





Interface Card)

1LTEC (LTE TDD/LTE FDD/HSPA+/TD-SCDMA/GSM Interface Card)

1LTE-Lt (TDD/FDD/TD-SCDMA/UMTS/EVDO Interface Card)

1LTE-Lt-7 (TDD/FDD/TD-SCDMA/UMTS/EVDO Interface Card)

1LTE-Lo (FDD/HSPA+ Interface Card)

1LTE-Lc (TDD/FDD/TD-SCDMA/HSPA+ Interface Card)

E&M Card

POS/CPOS Card

ISDN S/T WAN Card

Voice Card

xDSL Card

xPON Card

Capacitor Card

Cables

Pluggable Modules for Interfaces

Accessories

Table 7-281 Functions and features

| Function and Feature | Description |
|----------------------------|---|
| Basic function | Dials up to an LTE network to provide high-speed data transmission. |
| | Provides a backup link for a WAN link, to improve communication reliability between an enterprise's headquarters and branch networks. |
| High bandwidth | Supports FDD LTE and provides up to 50 Mbit/s uplink rate and 100 Mbit/s downlink rate. |
| Excellent 4G experience | Implements on-demand dialup and provides Provides end-to-end QoS |
| | Automatically scans different 4G frequency bands. |
| | Delivers fast 4G access service using industry- leading wireless technologies. |
| Flexible wireless | Maintains compatibility with 3G services. |
| stanualus | Supports LTE FDD, DC-HSPA+, HSPA+, WCDMA, EDGE, GPRS, and GSM. |
| | Provides 4G wireless access solution for carriers and enterprises. |
| Rapid deployment | Allows users to connect to an LTE network as soon as a SIM card is installed on the card. |

Panel

Figure 7-121 shows the indicators on a 1LTE-L card, and **Table 7-282** describes the indicator states and meanings.

Figure 7-121 Indicators on a 1LTE-L card

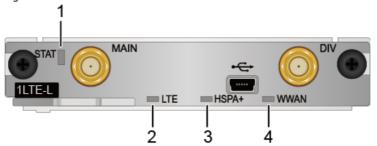


Table 7-282 Indicator description

| Number | Indicator | Color | Description |
|--------|-----------|----------|--|
| 1 | STAT | Green | Steady on: The system has been powered on, but the system software is not running. Slow blinking: The system is running properly. Fast blinking: The system is being powered on or restarting. |
| | | Previous | |

Translation

Favorite

Download





Translation

Favorite

Download



| | | keu | affects services has occurred and cannot be rectified automatically. The fault needs to be rectified manually. |
|---|-------|-------|---|
| | | Off | The system software is not running or is resetting. |
| 2 | LTE | Green | Steady on: The LTE signal strength is high. Fast blinking: The LTE signal strength is medium. Slow blinking: The LTE signal strength is low. Off: No LTE signal is available. |
| 3 | HSPA+ | Green | Steady on: The HSPA+ signal strength is high. Fast blinking: The HSPA+ signal strength is medium. Slow blinking: The HSPA+ signal strength is low. Off: No HSPA+ signal is available. |
| 4 | WWAN | Green | Steady on: An LTE or HSPA+ link has been established and is active. Blinking: Data is being transmitted over the LTE or HSPA+ link. Off: The LTE or HSPA+ link is not established or is inactive. |

Figure 7-122 shows the interfaces on a 1LTE-L card.

Figure 7-122 Interfaces on a 1LTE-L card **WWAN** 3 1. 2. 3. Mini 4. One SIM card slot

LTE

Secondary

USB

Previous

Primary

LTE



| | not recommended to use the card cover to prevent poor SIM card contact. • Hot-swap SIM card is not supported. After replugging the SIM card, you need to restart the RF module or restart the device. | Translation Favorite Download |
|--|--|-------------------------------------|
|--|--|-------------------------------------|

LTE antenna interface

LTE antenna interfaces of a router include a MAIN interface (for the primary antenna) and a DIV interface (for the secondary antenna). The primary and secondary antennas work together. The primary antenna transmits and receives LTE signals, and the secondary antenna only receives LTE signals to help improve the downlink rate. Table 7-283 lists attributes of an LTE antenna interface.

Table 7-283 LTE antenna interface attributes

| Attribute | Description | |
|--|---|--|
| Connector type | SMA-K (screw threads outside and a hole inside) | |
| Standards compliance and frequency bands supported | LTE FDD: Band 1/2/3/4/5/7/8/20 WCDMA: Band 1/2/5/8 GSM: 850/900/1800/1900 (MHz) | |
| Rate | LTE Frequency Division Duplexing (FDD): uplink rate of 50 Mbit/s and downlink rate of 100 Mbit/s Dual Carrier High Speed Packet Access Plus (DC-HSPA+): uplink rate of 5.76 Mbit/s and downlink rate of 42 Mbit/s High Speed Packet Access Plus (HSPA+): uplink rate of 5.76 Mbit/s and downlink rate of 21.6 Mbit/s WCDMA packet switched (PS): uplink rate of 384 kbit/s and downlink rate of 384 kbit/s Wideband Code Division Multiple Access circuit switched (WCDMA CS): uplink rate of 64 kbit/s and downlink rate of 64 kbit/s Enhanced Data Rates for GSM Evolution (EDGE): uplink rate of 236.8 kbit/s General Packet Radio Service (GPRS): uplink rate of 85.6 kbit/s and downlink rate of 9.6 kbit/s and downlink rate of 14.4 kbit/s | |
| Cable type | LTE Indoor Remote Antenna (27012152) LTE Whip Antenna | |

Mini USB interface

The Mini USB interface on an LTE card is used to commission the LTE module. Table 7-284 lists attributes of a Mini USB interface.

Table 7-284 Mini USB interface attributes

| Attribute | Description |
|-----------|-------------|
| | Previous |





| Connector type | IVIIIII USD-b-arigle |
|----------------------|----------------------|
| Standards compliance | USB2.0 |
| Working mode | Device |

Translation

Favorite

Technical Specifications

Download

Table 7-285 lists the technical specifications of a 1LTE-L card.

Table 7-285 Technical specifications

| Item | Specification | |
|----------------------------|--|--|
| Card type | SIC | |
| Hot swap | Supported | |
| Physical specifications | Dimensions (H x W x D): 19.82 mm x 100.1 mm x 223.5 mm (0.78 in. x 3.94 in. x 8.80 in.) Maximum power consumption: 7.5 W Weight: 0.2 kg (0.44 lb) | |
| Environment parameters | Operating temperature: 0°C to 45°C (32°F to 113°F) Operating relative humidity: 5% to 95%, noncondensing Storage temperature: -40°C to +70°C (-40°F to +158°F) Operating altitude: 0 m to 5000 m (0 ft. to 16404.2 ft.) | |

Ordering Information

To place an order, visit http://e.huawei.com/en/how-to-buy to find the local supplier or submit your inquiries online.

Table 7-286 provides 1LTE-L card ordering information.

Table 7-286 Ordering information

| Part Number | Model | Name Label (Silkscreen) | Description |
|----------------|-----------------|-------------------------------|--------------------------|
| 02310QBB | AR-1LTE- L-S | 1LTE-L | WCDMA LTE Interface Card |



About Huawei

About Huawei Enterprise

Branch Office News Room

Huawei Events ... -





Download



Get Pricing Find a Partner

Find a Reseller Translation

Partner Favorite

Become a Partner Get Permissions

Partner Training Partner Zone

Resources

eBlog Resource Center

Video Library Publications

Case Studies ICT Insights Podcast

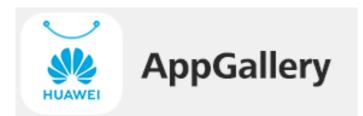
Quick Links

Carriers Corporate

Consumers Huawei Cloud

Huawei Marine

Enterprise App >







Copyright © 2019 Huawei Technologies Co., Ltd. All rights reserved.

Privacy | Terms of use | RSS Subscribe | Sitemap