



简信通科技有限公司  
JATON TECHNOLOGY



## 3100M LTE/WiMAX Dual Mode Indoor CPE

### CONVENIENT WIRELESS BROADBAND ACCESS

3100M is advanced 4G dual mode and multiple port indoor WiFi & SIP VoIP CPE product designed to enable quick and easy WiMAX or TD-LTE fixed data service deployment for residential and SOHO customers. It provides high speed LAN, WiFi and VoIP integrated services to end users who need both bandwidth and multi-media data service in enterprise or home.

### RELIABLE PERFORMANCE

3100M is a multiport indoor WiFi & VoIP CPE based on the standard implementation of TD-LTE and mobile WiMAX specifications. With built-in high gain antenna, It enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability.

The device has 2 LAN ports, 2 RJ11 analog phone ports (1 voice line), built-in 802.11b/g/n WiFi and software firewall for security, providing an effective all-in-one solution to SOHO or residential customers. It can provide up to 100Mbps data throughput which can be very competitive to wired broadband access service.

### EASY USAGE & MANAGEMENT

3100M is a user-friendly LTE/WiMAX dual mode CPE, and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The LEDs on the 3100M have also been designed for user convenience, and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential users.

3100M offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS system.

### TECHNICAL FEATURES

3100M is fully compliant to the LTE specification. It offers standard support for advanced features such as MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services.

3100M has enhanced router function and VPN clients support to enable greater service selection and reliability. The easy-to-read signal strength and data activity indicators in the front panel make it intuitive for users to check the status of the device.

To meet the different requirements of varied countries and regions, 3100M come with different sub models to operate in different frequency bands as specified by the 3GPP LTE standards. The currently supported product band include B42/43 (3.4-3.8GHz).



- ◆ Cost effective & compact design with built-in high gain LTE/WiMAX and WiFi antenna
- ◆ Compliant to TD-LTE and WiMAX specifications
- ◆ Advanced MIMO support and Category 4 throughput
- ◆ Dual LAN ports, SIP 2.0 VoIP and 802.11b/g/n MIMO WiFi support
- ◆ VPN & full L2/L3 GRE Tunneling clients support
- ◆ Router, bridge and by-pass networking, IPv4 & v6 and Multiple PDN support
- ◆ FTP, HTTP and TR-069 management support
- ◆ SIM card authentication and virtual SIM support
- ◆ UPS battery backup option

### FEATURE HIGHLIGHTS

# 3100M LTE Dual Mode Indoor CPE Specifications

## Physical

Dimensions	155mm x 150mm x 57mm (Without antenna)
Weight	< 350g
Power Consumption	< 15W
Power Supply	12V/1.5A DC Adapter USP battery backup optional

## Environmental

Operating Temperature	-15°C--55°C
Storage Temperature	-40°C--85°C
Humidity	90% max Non-condensing

## Radio Interface

Radio Access	3GPP TD-LTE Release 9
Operation Mode	TDD, 2Rx, 1Tx, DL MIMO
Frequency Band	B42/43
Output Power	27 dBm (B42/43)
Antenna Gain	2±1 dBi (B42/43)

## WiMAX Radio Interface

Radio Access	Mobile WiMAX 802.16e
Frequency Band	3.4-3.8GHz
Operation Mode	TDD, 2Rx, 1Tx, MIMO
Channel Bandwidth	3/3.5/5/7/8.75/10MHz
Modulation	QPSK, QAM16, QAM64
FFT	1024/512 FFT points
FEC	Convolution & Turbo Code
Authentication	TLS/TTLS
Output Power	27 dBm (3.4-3.8GHz)
Antenna Gain	2±1 dBi (3.4-3.8GHz)

## WiFi Interface

Radio Access	802.11b/g/n (300 Mbps)
Output Power	20 ± 1dBm
Antenna	3dBi built-in antenna
Connected Users	32+
Security	64/128 bit WEP, WPA/WPA2

## User Interfaces

Data Interface:	1 RJ45 10/100M ETH Port 1 RJ45 10/100/1000M ETH Port
Line Interface:	2 RJ11 Ports (1 FXS Line)
LED Indicator:	SYS, NET, RF (4), SIM, WiFi, WPS, MSG, ETH1&ETH2, Line
SIM Support	SIM card slot (2FF)

## Networking Configuration

DHCP or Static IP address Assignment
Bridge and Router Operation Support
Built-in DHCP Server for LAN Devices
IPv4, and IPv6 DS-Lite Support for LTE
Multiple PDN interface support
NTP Service Support

## Data Networking Features

VPN Pass-through support (PPTP, L2TP & IPsec)
Built-in L2TP & GRE Tunneling Client Support
Firewall & Access Control
DMZ and Virtual Server Support
IP and Port Support
Local and Remote Management Restriction
Application Firewall Support
LAN Device Access Control

## VoIP Processing

Compression	G.711	G.721	G.723
	G.726	G.729	G.722
Comfort Noise	Comfort noise generation & control		
Echo Cancellation	G.165/168-2000		
Silence Handling	Silence detection/suppression		
Fax Support	T.30 and T.38		
Delay/Jitter/Loss	Jitter and packet loss compensation		
DTMF Relay	In band DTMF, RFC2833, SIP signal		
Call Duration	24+ hours Uninterrupted Call		

## Voice Services

Basic Voices	Local, domestic & international calling Flexible dial plan configuration support Tone customization for different countries
Complementary Services	Caller ID, Caller ID suppression, Call Screening, Speed dial, Call Tracing, Hotline, Unconditional call forwarding, Call Forwarding No Answer, Call Forwarding on Busy, Call Waiting, Call Back, Call Blocking, No Disturbance, Alarm, Network and Local 3-way Call, Data Call, and etc.

## Device Management

CLI, Telnet and WEB Management Interfaces
Standard TR-069 Management
Device Factory Default Setting
Virtual SIM Card Support

## Industry Standards

ITU	3GPP	E-UTRA Release 9
IEEE	IEEE 802.16e	Mobile WiMAX
	IEEE 802.3	10Base Ethernet
	IEEE 802.3u	Fast Ethernet
	IEEE 802.11	Wireless LAN (802.11b/g/n)
IETF	IP voice	SIP v2.0
OTHERS	Safety	FCC or CE