

Product Spec

LTE Cat.4 Outdoor Gateway OT-235

LTE Band 42, 43, 48

Version	V1.0
Date	Oct., 2018



Green Packet Berhad Company

1. Overview

Our philosophy is to keep design simple and hardware structure streamlined. Thus, we are able to introduce the devices which are relatively affordable, reliable and durable. Eventually, our customers will benefit from their cost-effective LTE investment

LTE Cat.4 outdoor gateway OT-235 comes with powerful integrated antenna and 23 dBm output power, is tailored to get higher transmit EIRP. A high quality outdoor gateway, with high gain antenna inside, provides not only better signal strength but also stable connectivity.

OT-235 comes with a robust IP-55 enclosure and its operating temperature is from -20 to +55 degree C. All those factors contribute to a rugged yet cost-effective solution to operate in extreme weather condition.

2. Hardware Specifications

2.1 Basic Description

Feature	Description	Remarks
3GPP Release Version	Release 9	
UE Category	Cat. 4	
LTE supported bands	TDD B42, 43, 48	
Ethernet LAN port	Fast ethernet RJ-45 port x 1	(at ODU)
Antenna Number	2	
	1Tx, 2Rx	
Antenna Peak Gain	10 dBi	@3.5 GHz
Reset button	Tact switch	
Power supply	PoE circuit 12V, 1.5A	(at WN-1200)

2.2 ID Design

2.2.1 Appearance Index_OT-235

Index	Description
Dimension	272 (H) x 132 (W) x 51 (T) mm
Weight	1 kg
Color	Light Grey



2.3 Interface and Button

Interface	Description
RJ-45 x 1	F/E RJ45 x 1
SIM Slot x 1	Mini SIM. Support 1.8V and 3.3V SIM and USIM)
Reset/ Reboot button	Tact switch

2.4 Software Specs

SW Spec	Description
LTE Standard	3GPP Release 9
Downlink MIMO	DL MIMO 2x2 & 4x2
UE Category	Cat.4
Full band search	support
Multiple APN	support
SIM Lock	support
SIM function	1.8V and 3.3V SIM and USIM card

2.5 Networking

Networking Spec	Description	Remarks
IPv4		
IPv6	only under LTE mode	
IPv4/IPv6 dual stack	only under LTE mode	
Network Mode - NAT Mode		
Network Mode - Tunnel Mode	supported L2/ L3 L2TP, GRE VPN	Customization Feature
Network Mode - Bridge Mode		Customization Feature
Network Mode - Router Mode		supported NAT, VPN route
DHCP Client in WAN		supported, no DHCP client but get IP from LTE signaling
DHCP Server in LAN	For NAT Mode, Supports 253 clients max.	
NTP Client		
Network QoS		
DDNS Client		
UPNP		
HTTP(s) Server		
DSCP Tag		Customization Feature
ALG Support (FTP/ SIP etc.)		
Port trigger/ Port forward		
Packet Counter		
VLAN Passthrough		

2.6 Device Management

Spec	Description	Remarks
User Name / Password configuration	Support password configuration only	
Two-level User Name/ Password configuration	support 2 levels: user and admin	
Web Access (Remote/Local)	Supported.	
Local Firmware Update	Supported.	
SNMP Agent	Require customization.	
TR069	Ready for IOT	
TR-143	Not supported.	
OMA-DM	Not supported.	
FOTA Firmware Upgrade	Require IOT with different networks	

2.7 Security

Spec	Description	Remarks
User Name/ Password configuration	Support password configuration only	
L2/ L3 Firewall - Basic firewall - Port Forwarding - Port trigger - DMZ - Remote WAN Ping - Remote Web Access Control	MAC/IP Filter supported supported supported supported supported supported	

2.8 RF Specifications

LTE RF Spec	Capability		Remarks
	Description	Unit	
LTE Supported Bands	TDD: B42, 43, 48		3.4GHz to 3.8GHz
LTE Channel Band Width	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz		MHz
LTE Output Power @ 25 °C	23		dBm
LTE Receiver Sensitivity	-102.7dBm/5MHz -99.7dBm/10MHz -97.9dBm/15MHz -96.7dBm/20MHz		dB
LTE RF Standard	All RF specification should reference with 3GPP Release 9 TS 36.101		Compliant with 3GPP with margin
LTE Antenna Gain	10		dBi
LTE Antenna Efficiency	> 50%		@ 3.4 GHz ~ 3.8 GHz

2.9 Environment Specifications_OT-235

No.	Feature	Capability				Remarks
		Min	Typical	Max	units	
1	Operating temperature	-20		55	°C	
2	Storage temperature	-20		60	°C	
3	Operating humidity	10		90	%	
4	Storage humidity	5		95	%	
5	IP Rating		IP55			
6	Surge Protection		6KV			At power adapter
			2KV			At main PCB

3. Appendix-Deliverable

Article Number	Content	Remark
OT-235_Option 1	<ul style="list-style-type: none"> - 1 x Assembled product ODU - 1 x Quick installer guide - Mounting kit - 1 x LAN cable 	Detailed deliverables to be defined by customer agreement.
	PoE Injector x 1 (with power adapter)	Power adapter 12V / 1.5A x 1
OT-235_Option 2	<ul style="list-style-type: none"> - 1 x Assembled product ODU - 1 x Quick installer guide - Mounting kit - 1 x LAN cable 	
	WN-1200 Wi-Fi Router x 1 <ul style="list-style-type: none"> - Wi-Fi 11 ac/b/g/n - 4 x F/E ports, - 1 x WAN/ PoE port 	Power adapter 12V / 1.5A x 1

Installation Quick Guide

QIG (Logo can be customized)

Packaging

White Box, Device Label, Box Label

Greenpacket will provide customers with comprehensive technical support. Any problem please contact support department directly.

Green Packet Berhad

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