

# Product Spec

# LTE-A CAT.5/ 6/ 7 Indoor CPE

## D2K Series

FDD B1/2/3/4/5/7/8/20/28

TDD B38/40/41/42/43/48



Version	V1.1
Date	May,2020



Green Packet Berhad Company

## 1 Overview

A high-performance yet cost effective LTE Indoor CPE, D2K provides users with wireless and fixed broadband connectivity.

D2K supports below LTE bands:

Versions	Supported TDD-LTE Band	TDD-LTE Band	
D2K-4010	B40, 41		1GE + 802.11bgn (2x2)
D2K-4210	B42, 43, 48		1GE + 802.11bgn (2x2)
D2K-FT10	B40-38-41	B1-3-7-5-28b	1GE + 802.11bgn (2x2)
	B40-42	B2-4-7-28	1GE + 802.11bgn (2x2)
D2K-4051	B40, 41		1GE+ 1FE+ 1 VoIP+ 802.11ac
D2K-4251	B42, 43, 48		1GE+ 1FE+ 1 VoIP+ 802.11ac
D2K-FT51	B40-38-41	B1-3-7-5-28b	1GE+ 1FE+ 1 VoIP+ 802.11ac
	B40-42	B2-4-7-28	1GE+ 1FE+ 1 VoIP+ 802.11ac

## 2 Hardware Specifications

### 2.1 Basic Description

Feature	Description	Remarks
3GPP Release Version	Release 10/11	
UE Category	CAT. 5, CAT. 6, CAT.7 Compliant	
Host	GCT GDM7243QT	
Wi-Fi	2.4GHz	802.11 b/g/n Compliant
	5GHz 11ac optional, with extra cost	Optional
Ethernet LAN port	RJ-45 giga port x 1. 10/100/1000	Default x 1
	RJ-45 FE port x 1. 10/100	Optional.
RJ-11 port	RJ-11 port x 1, one line	Optional. VoIP.
LED Indicators	SYS, NET, LTE, SIM, 2.4G Wi-Fi, 5G Wi-Fi, ETH1, ETH2, LINE	
Reset/Reboot button	Tact switch	
USIM	1.8V/ 3.0V 2FF USIM	
LTE Antenna	Built-in 4x4	4x4 support in Cat.5
Power supply	Input: Universal range 100~240VAC Output: 12V/1.5A DC	

## 2.2 ID Design

### 2.2.1 Appearance Index

Index	Description
Dimension	122mm x 122mm x 162mm
Color	White
Weight	<600g

## 2.3 Interface and Button



## 2.4 RF Specifications

Feature	Capability				Comments
	Min	Typ	Max	Unit	
LTE Supported Bands TD	B1/3/7/8/20/38/40/41, or B1/3/5/7/28B/38/40/41, or B2/4/7/28/40/42, or B42/43/48, or B3-7-20-40-41				Different band combination may require additional customization effort and result in extra cost. For details, please contact us.
LTE Channel Band Width	10/20			MHz	
Carrier Aggregation Band width	20/30/40			MHz	
Carrier Aggregation	Inter-Band 2CA Intra-Band 2CA			MHz	
DL MIMO	DL MIMO 4 x 4				
LTE Output Power @ 25 °C		23		dBm	
Standard	Comply with 3GPP Release 11				
LTE Antenna Support Frequency	700		3800	MHz	4 antenna for LTE

Feature	Capability				Comments
	Min	Typ	Max	Unit	
LTE Antenna Gain	<b>2-5 dBi</b> (B1/2/3/4/5/7/8/20/28B/38/40/41) <b>5-6 dBi</b> (B42/43/48)				
Wi-Fi	802.11b/g/n/ac with Independent AP processor				11ac is optional
Wi-Fi Users	32 users				
Wi-Fi Antenna Gain	4-5 dBi				Built-in antenna
Wi-Fi Antenna	2 x 2 MIMO				

## 2.5 Environment Specifications

No.	Feature	Capability				Remarks
		Min	Type	Max	units	
1	Operating temperature	0		45	°C	
2	Storage temperature	-20		60	°C	
3	Operating humidity	0		90	%	
4	Storage humidity	0		90	%	

## 2.7 Regulatory Specification

Feature	Requirement Specification	Comments
CE	Follow CE regulatory	Compliant
FCC	Follow FCC regulatory	Compliant

## 3 Functional Specification

### 3.1 SW Specifications

#### LTE

Feature	Status	Comments
3GPP Release 10/ 11	Ready with Chipset	Detail LTE-A features will be defined with customer & eNB readiness
MIMO Support	Ready with Chipset	DL MIMO 2x2 & 4x4
UE Cat 6	Ready with Chipset	
1TX/ 2RX	Ready with Chipset	
Full band search	Ready with Chipset	
APN Configuration	Ready with Chipset	Multiple APN

SIM function (1.8V and 3V SIM and USIM card)	Ready with Chipset	
PIN/ PUK Code	Ready with Chipset	
<b>Networking</b>		
Feature	Status	Remarks
IPv4	Ready	
IPv6	Ready	
IPv4/v6 dual stack	Ready	
NAT Mode	Ready	
Bridge Mode	Customization	
Tunnel Mode - GRE - L2TP / L2TP w/ IPsec - PPTP	Customization	
Router Mode	Ready	
VPN VPN Pass-through support (PPTP, L2TP & IPsec)	Ready	
DNS Proxy Support		
PCI lock / Cell lock	Support	
Only carrier SIM shall work in the CPE		
BIP	Support	

### 3.2 Device Management (Indoor Unit)

Feature	Status	Remarks
Software upgrade HTTP/ FTP auto upgrade	support	
TR069	Ready for IOT	
Port mirror	support	
syslog	support	
Diagnostics, Support the Ping and trace route	support	

### 3.3 Security

Feature	Status	Comments
User Name/ Password configuration	Ready	
Firewall <ul style="list-style-type: none"><li>● Basic firewall</li><li>● Allow PING from WAN</li><li>● Allow HTTPs log in from WAN</li><li>● HTTPs log in port from WAN</li><li>● DMZ IP address</li><li>● Redirect ICMP to the host</li><li>● IP, MAC, URL filter</li><li>● UPnP</li><li>● Port Forwarding</li></ul>	Ready	

### 3.4 Wi-Fi Features

Feature	Status	Remarks
Network Name (SSID)	Ready	
SSID Broadcast Enable	Ready	
802.11 b/g/n 802.11 ac (Optional)	Ready	
Security Un-encrypted, WEP-OPEN, WEP-SHARED, WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (TKIP), WPA2-PSK (AES)	Ready	
Support WPS: Support PBC mode	support	
Wi-Fi support max. users: 32	support	
Multi SSID	support	

#### **4. Appendix-Deliverable**

<b>Article Number</b>	<b>Content</b>	<b>Remark</b>
D2K	<ul style="list-style-type: none"><li>- 1 x Assembled unit</li><li>- 1x 12V/ 1.5A Power adaptor</li><li>- 1x Quick installer guide</li></ul>	Detail deliverables need to be defined by customer agreement

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

#### **Green Packet Berhad**

Website:	<a href="http://www.greenpacket.com">www.greenpacket.com</a>
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