VT5500-C Specifications

Contents

1. Product Overview

VT5500-C is a cost-effective device specially developed for remote video and driving safety monitoring of trucks.

It equips with a high-speed processor and embedded operating system, combined with the most advanced H.265 video compression/decompression technology. VT5500-C can realize 1080P, 720P, CIF resolution video recording, car driving information recording and remote video upload, and cooperate with the central software to realize alarm linkage central remote video monitoring, vehicle intelligent dispatch management and playback analysis based on central database.

The product supports the expansion of AI intelligent algorithm functions, which can realize ADAS (Advanced Driving Assistance System) alarms, BSD blind spot detection and DSM (Driver Status Monitor), effectively improving the safe driving of drivers and reducing traffic accidents between people and vehicles.

Highlights are shown below:

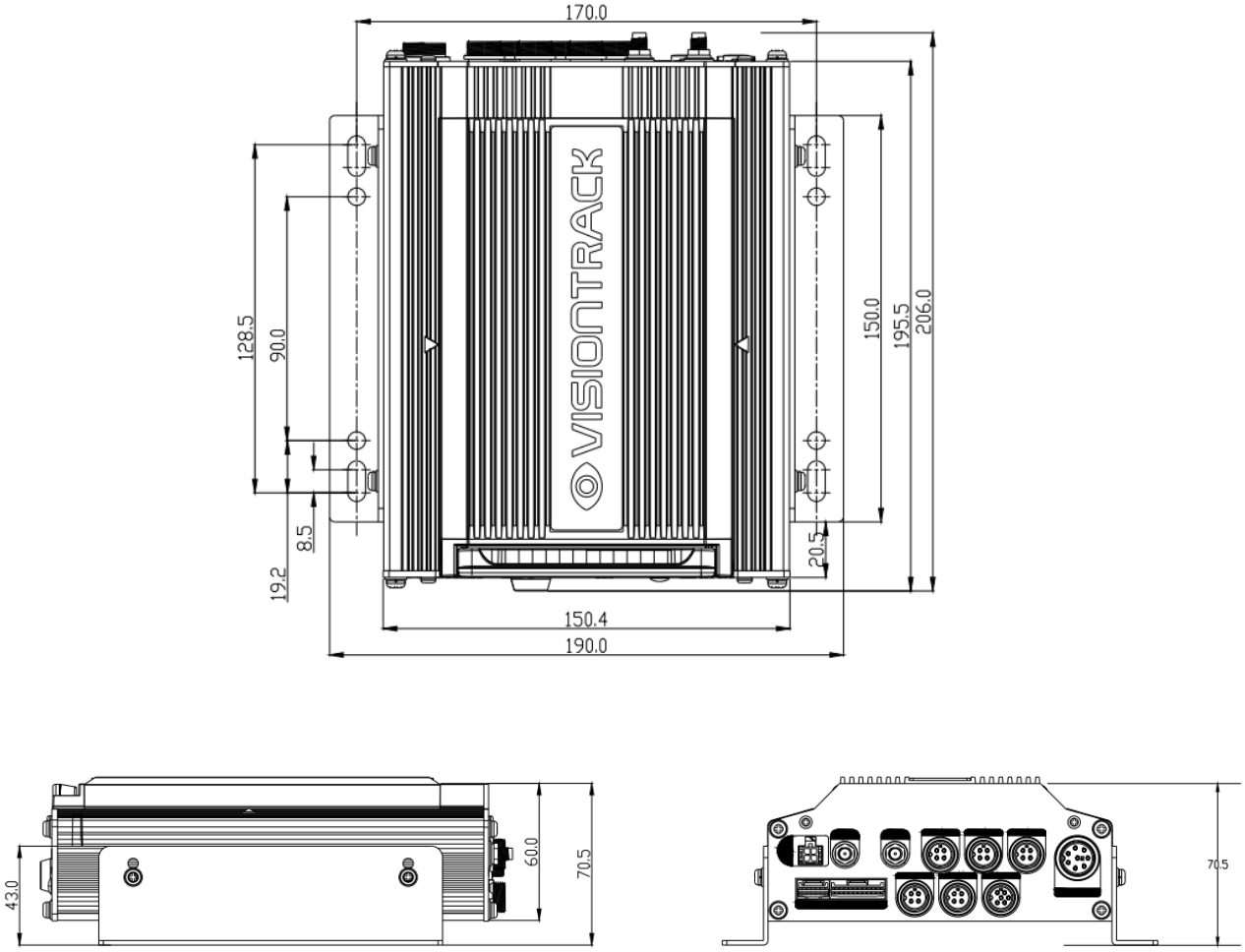
- Embedded Linux Operating System
- Abundant modules including 3G/4G, Wi-Fi, Bluetooth, G-Sensor
- Support GPS positioning, real-time recording of vehicle track for analysis
- Support AI features expansion
- Support 2.5-inch hard disk storage, hard disk heating and hard disk power-off protection technology
- Remote Monitoring and Recording
- Special file system to ensure recording data security and protect personal privacy
- Industrial design, aluminum alloy shell and massive heat sink for good heat dissipation
- Support 100Hz G-sensor ingestion

2. Specifications

Item		Description	
Model		VT5500C	
Main feature		Live-view, Recording, Playback, Transmission, Positioning	
System	OS	Linux 4.9	
	Control Mode	CP4, Mouse, Easycheck, OTA	
Video	Input	4 AHD (1080P)+ 1 IPC（1080P）	
	Output	1 (CVBS)	
	Resource (Pending)	PAL: 4*720P@25fps（AHD）+1*1080P@30fps（IPC） Or 4*1080P@11fps（AHD）+1*1080P@30fps（IPC） NTSC: 4*720P@30fps（AHD）+1*1080P@30fps（IPC） Or 4*1080P@11fps（AHD）+1*1080P@30fps（IPC）	
	Video Signal Standard	Level: 1Vpp Impedance: 75Ω NTSC/PAL optional	
Audio	Input	5 channel（1 channel IPC Audio）	
Audio	Output	1 channel	
	Audio Signal Standard	Level: 2Vpp Input Impedance: 4.7kΩ	
Display	Split options	1/4/9	
	OSD	Positioning, Alarm, Vehicle Plate, Speed, Time	
	GUI	Graphic user interface	
Recording	Audio/Video Suppression Format	Video	H.264/H.265
		Audio	ADPCM、G.711U
Recording	Image Resolution	PAL: 1080P(1920X1080)， 720P(1280X720)， WD1(928X576),WHD1(928X288), WCIF(464X288),D1(704X576), HD1(704x288),CIF(352x288); NTSC: 1080P(1920X1080)， 720P(1280X720)， WD1(928X480),WHD1(928X240), WCIF(464X240),D1(704x480), HD1(704x240),CIF(352x240); Digital: 1080P(1920X1080),720P(1280X720)；	
	Image Quality	1-8 (1 is the best)	
	Recording Mode	Ignition on/ Manual/ Timer/ Alarm trigger	
	Alarm Pre-recording	0-60min	
	Alarm recording delay	0-30min	
Playback	Playback channel	Support single channel playback locally	
	View mode	Time, Channel, Event	
Network	IPC Ethernet	6 pin aviation plug (100M,PON)	
	3G/4G/WIFI	2*SMA female (either WIFI or 4G）	
Positioning	GPS	Positioning, Speed, Time Sync, External GPS	
G-sensor	G-Sensor	Embedded 6-axis	
Storage	Disk	1 x 2.5 inches SATA Disk	
Interface	USB	1 x USB2.0	
	Serial	1 x RS232; 2 x RS485(1 R-WATCH, 1 RFID）	

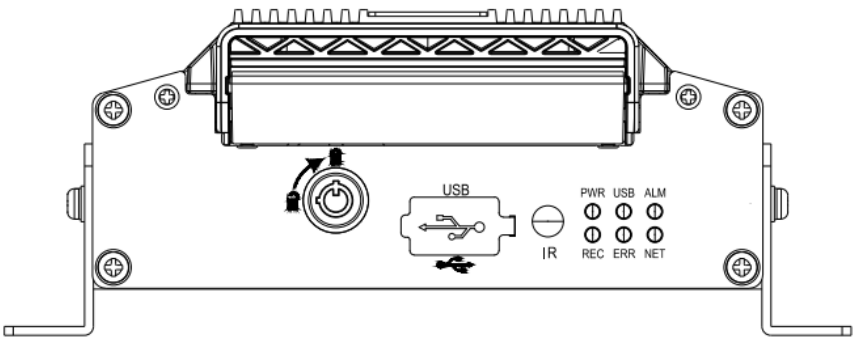
	Common switch	8 channel input, 2 channel output
	MIC	Support
	Speed	1 channel pulse input
	CAN	2 channel
	Control screen	CP4
	K_LINE	1 channel
	Intercom	1 MIC interface
	UPS	Support
	UTC	Support
Power	Input	DC 8-36V
	Output	5V@500mA
	Typ. Maximum consumption	35W
	Standby consumption	≈0W
Appearance	Dimension（mm）	206.0 x 190.0 x 70.5
	Weight(Disk included)（Kg）	1.2
Environment	Working Temperature	-40℃~+70℃（With heating and without disk）
	Working Humidity	8%-90%（non-condense）

3. Dimension（mm）

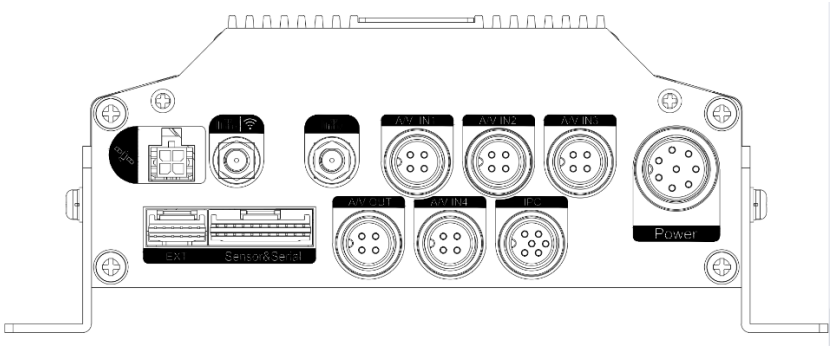


4. Panel Interface

(1) Front

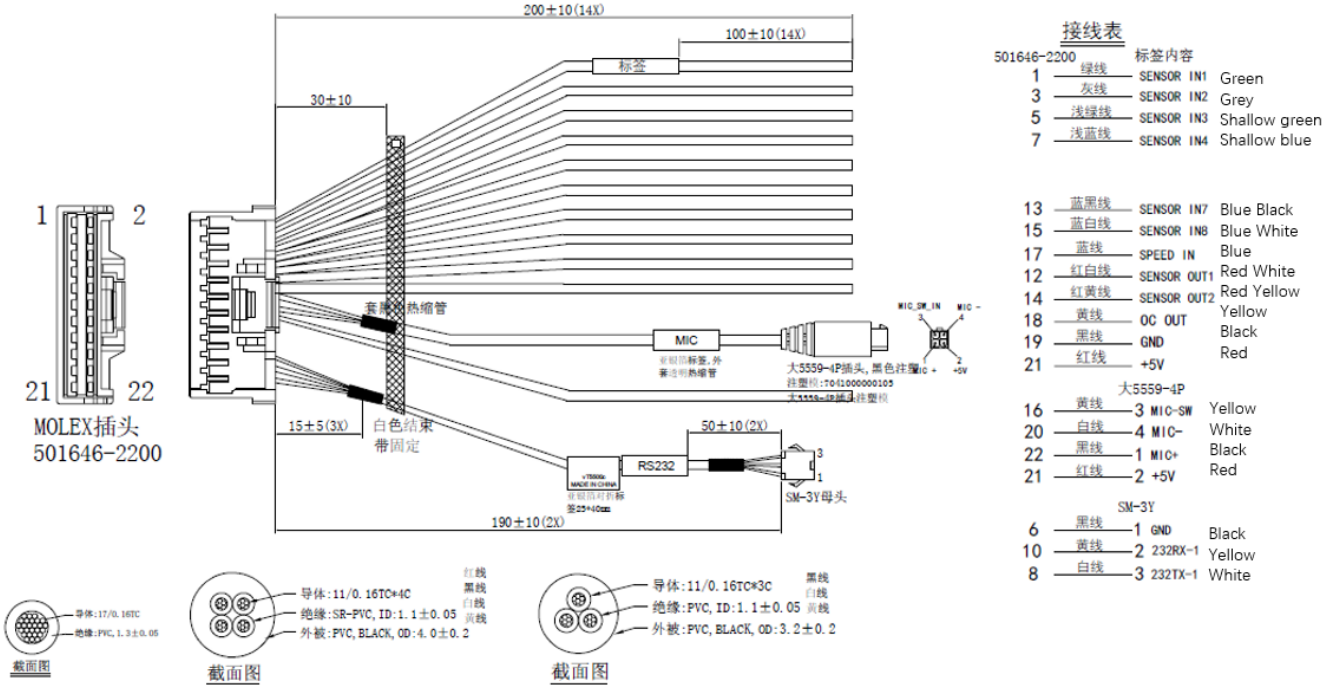


(2) Back



5. Definitions of Cable

（1）Alarm Cable



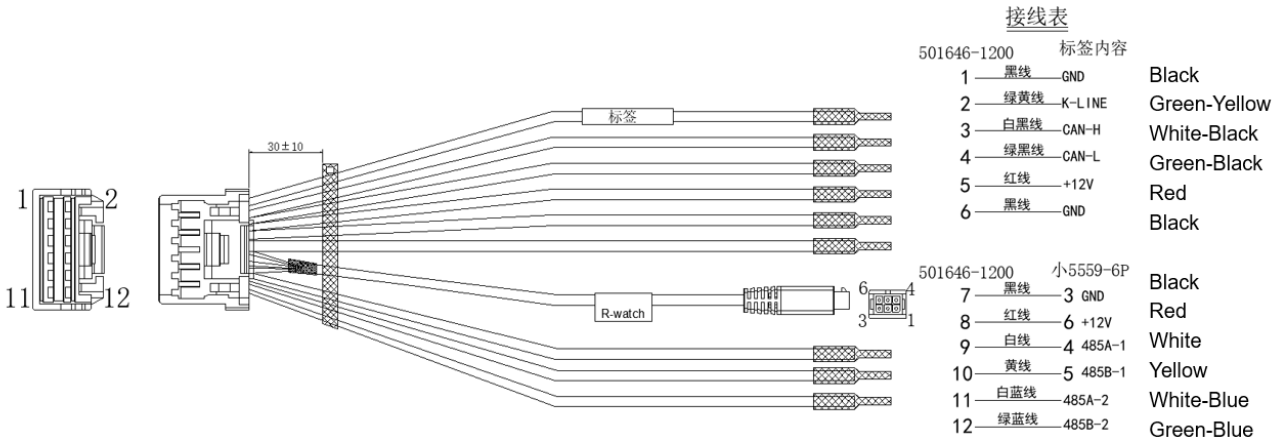
接线表

501646-2200		标签内容	
1	绿线	SENSOR IN1	Green
3	灰线	SENSOR IN2	Grey
5	浅绿线	SENSOR IN3	Shallow green
7	浅蓝线	SENSOR IN4	Shallow blue
13	蓝黑线	SENSOR IN7	Blue Black
15	蓝白线	SENSOR IN8	Blue White
17	蓝线	SPEED IN	Blue
12	红白线	SENSOR OUT1	Red White
14	红黄线	SENSOR OUT2	Red Yellow
18	黄线	OC OUT	Yellow
19	黑线	GND	Black
21	红线	+5V	Red

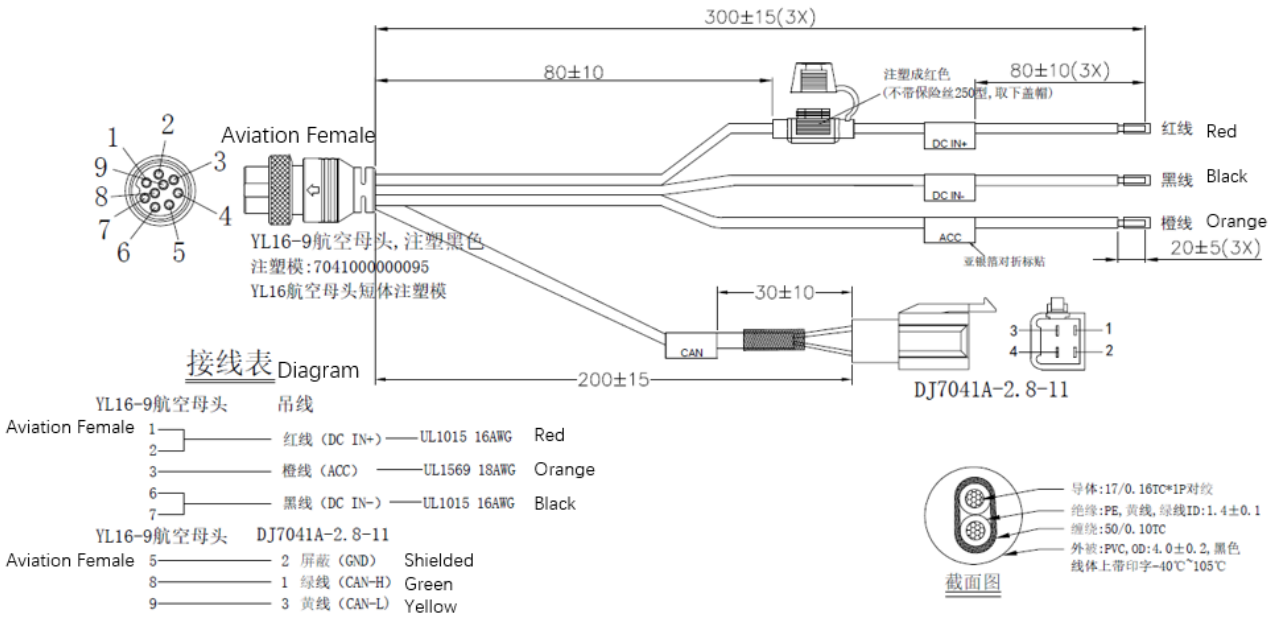
大5559-4P			
16	黄线	3 MIC-SW	Yellow
20	白线	4 MIC-	White
22	黑线	1 MIC+	Black
21	红线	2 +5V	Red

SM-3Y			
6	黑线	1 GND	Black
10	黄线	2 232RX-1	Yellow
8	白线	3 232TX-1	White

(2) Serial Port

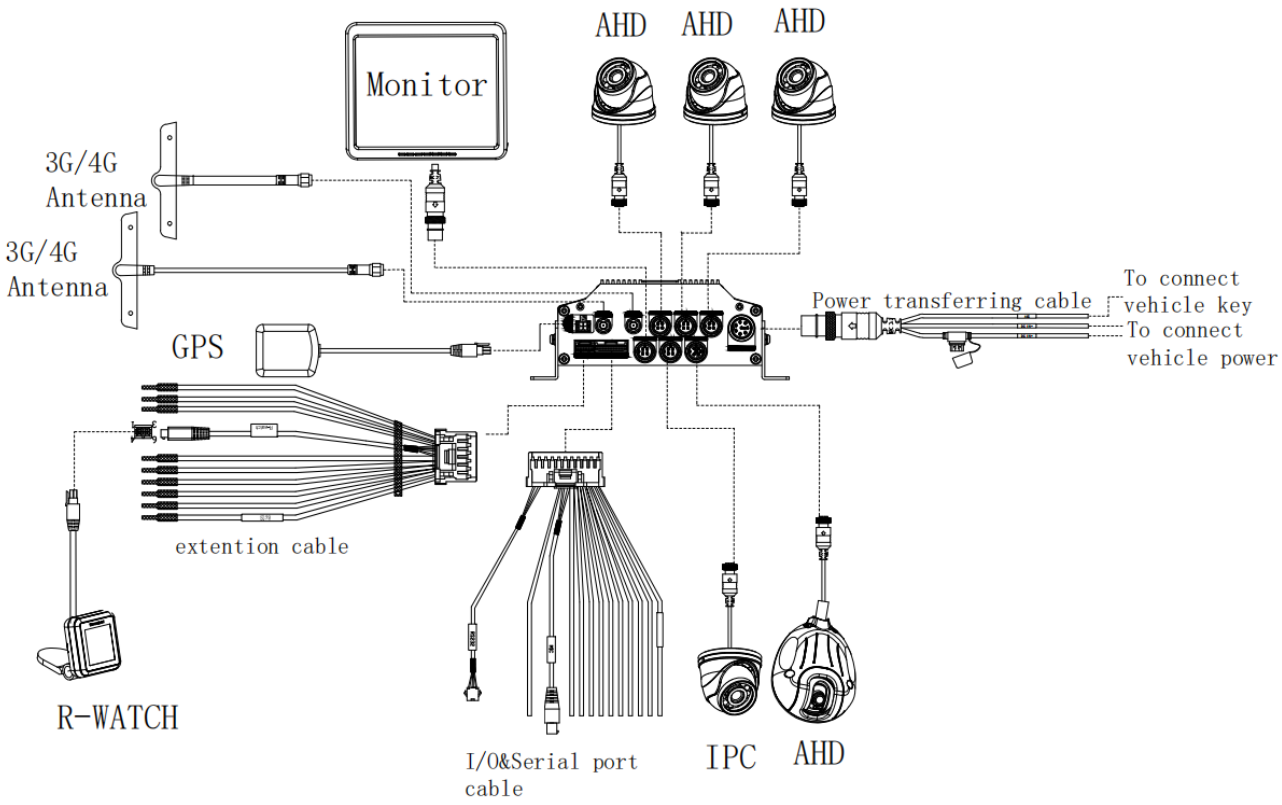


(3) Power Lead



6. System Diagrams

（1）General diagrams



FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Caution:

1.Max operation temperature: 40 degree C. Min operation temperature: -10 degree C.
2.This product can be used in UK. This device can be used in UK.
3.Products can be sold in UK Declaration of conformity Trimble Transportation declares that Micro system with Mobile Digital Video Recorder is in compliance with the essential requirements and other relevant provisions of Directive SI 2017/1206.

4. This product can be used in EU member states. This device can be used in European Union.
5. Products can be sold in all EU countries Declaration of conformity Trimble Transportation declares that Micro system with Mobile Digital Video Recorder is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
6 . This equipment should be installed and operated with minimum distance of 20cm the radiator your body.
Applicant: VISIONTRACK LIMITED
Address: MARKERSTUDY HOUSE, 45 WESTERHAM ROAD, SEVENOAKS, KENT, TN13 2QB United Kingdom

UK Importer: VISIONTRACK LIMITED
Address: MARKERSTUDY HOUSE, 45 WESTERHAM ROAD, SEVENOAKS, KENT, TN13 2QB United Kingdom

Frequency:
WCDMA2100:1920MHz-1980MHz
WCDMA900:880MHz-915MHz
LTE Band 1: 1920 MHz ~ 1980 MHz
LTE Band 3: 1710 MHz ~ 1785 MHz
LTE Band 7:2500-2570MHz
LTE Band 8: 880MHz ~ 915 MHz
LTE Band 20:832-862MHz
LTE Band 28:703-733MHz
WIFI 2.4GHz: 2412 MHz ~ 2472 MHz

Max power:
WIFI 2.4GHz: 15.01dBm
WCDMA900: 24.00dBm
WCDMA2100: 25.46dBm
LTE Band 1: 24.20dBm
LTE Band 3: 23.80 dBm
LTE Band 7: 23.95dBm
LTE Band 8: 23.74dBm
LTE Band 20: 23.67dBm
LTE Band 28: 23.56dBm