

RF EXPOSURE REPORT

REPORT NO.: SA991209E02

MODEL NO.: IX253P-5-0110INBL-I

FCC ID: 1881X253P

ACCORDING: FCC Guidelines for Human Exposure

IEEE C95.1

APPLICANT: ZyXEL Communications Corporation

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
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Report No.: SA991209E02 2 Report Format Version 4.0.0



1. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD MAGNETIC FIELD STRENGTH (V/m) STRENGTH (A/m)		POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)	
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE					
300-1500			F/1500	30	
1500-100,000			1.0	30	

F = Frequency in MHz

2. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

4. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For channel bandwidth: 5MHz

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
2505-2685	25.9	6	20	0.308	1.00

For channel bandwidth: 10MHz

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
2505-2685	25.5	6	20	0.281	1.00

Report No.: SA991209E02 3 Report Format Version 4.0.0