

# **RF EXPOSURE REPORT**

REPORT NO.: SA991209E02 MODEL NO.: IX253P-5-0110INBL-I FCC ID: I88IX253P

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
Original release	NA	Dec. 31, 2010



#### 1. RF EXPOSURE LIMIT

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)			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/ cm <sup>2</sup> )	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				