

RF EXPOSURE REPORT

REPORT NO.: SA990329C12 MODEL NO.: 7902 FCC ID: PJO7902

ACCORDING: FCC Guidelines for Human Exposure IEEE C95.1

- **APPLICANT:** Arima Communications Corp.
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- **ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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- **TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.



1. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	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

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

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

мс	DDE	MAX CONDUCTED POWER (dBm)	MAX CONDUCTED POWER (mW)	DUTY CYCLE (%)	EQUIVALENT CONDUCTED OUTPUT POWER (mW)
GF	PRS 32.3 1698.24		25	424.56	
P R	P Maximum power input to the antenna: R Distance:			424.56 mW 20 cm	
S	MPE limit for uncontrolled exposure:			0.55 mW/cm	
G₁ G₁	Antenna gain (numerical) to comply with MPE limit: Antenna gain (dBi) to comply with MPE limit:			t: 6.50 8.13 dBi	
ERP	limit to	comply with categoric	ally exclusion of 2.1091(c) 1.5 W	
G ₂	Antenna gain (numerical) to comply with ERP limit:			: 5.79	
G_2	Antenna gain (dBi) to comply with ERP limit:			7.63 dBi	
ERP power limit according to 22.913(a):			913(a):	7 W	
G ₃	Ante	nna gain (numerical)	to comply with ERP limit	: 6.76	
G₃	Antenna gain (dBi) to comply with ERP limit:			8.30 dBi	
G _{850 MHz band} Min (G ₁ , G ₂ , G ₃):				7.63 dBi	

850MHz Frequency Band:



1900MHz Frequency Band:

мо	DE	MAX CONDUCTED POWER (dBm)	MAX CONDUCTED POWER (mW)	DUTY CYCLE (%)	EQUIVALENT CONDUCTED OUTPUT POWER (mW)
GP	GPRS 29.6		912.01	25	228.00
P R S	 P Maximum power input to the antenna: R Distance: S MPE limit for uncontrolled exposure: 			228.00 mW 20 cm 1.00 mW/cm	
G_4 G_4	 Antenna gain (numerical) to comply with MPE limit: Antenna gain (dBi) to comply with MPE limit: 			t: 22.03 13.43 dBi	
ERP limit to comply with categorically exclusion of 2.1091(${\rm c}$)				c) 4.92 W	
G ₅	Antenna gain (numerical) to comply with ERP limit:			:: 21.58	
G_5	5 Antenna gain (dBi) to comply with ERP limit:			13.34 dBi	
ERP power limit according to 22.913(a):			913(a):	2 W	
G_6 G_6	Antenna gain (numerical) to comply with ERP limit: Antenna gain (dBi) to comply with ERP limit:			:: 2.19 3.41 dBi	
$G_{1900 \text{ MHz band}}$ Min (G ₄ , G ₅ , G ₆):				3.41 dBi	