MPE Calculations (Mobile)

The device is not a portable device (i.e. intended to be worn on the body or be hand-held), so it is classified as being either a mobile device or a fixed mounted device. The user's manual specifies a minimum separation distance of at least 20cm, consistent with this classification.

FCC part 1.1310, Table 1 limits the power density for uncontrolled exposure. The power density, Pd (mW/cm2) calculated from the maximum EIRP, Pt (mW) and the distance, d (m), between the transmitting antenna and the closest person, can be calculated using:

Formula is:

 $Pd = Pt / (4*pi*d^2)$

Frequency (MHz)	MPE Limit (mW/cm ²)	Eirp (mW)	Pd at 20cm (mW/cm ²)	Distance where Pd = Limit (cm)
2400 - 4990	1	1406.52	0.28	10.6

Band	Mode	Output	Power	Antenna gain	E	IRP	Channels Available	Channels Used	Total I	EIRP
Dallu	woue	Peak	Average	(Max)	dBm	W	Charineis Available	Charmers Useu	W	dBm
2400 - 2483.5	CCK	-	20.0	7.5	27.5	0.562	11	1	0.562	27.50
2400 - 2483.5	CCK	-	20.0	7.5	27.5	0.562	11	1	0.562	27.50
4940 - 4990	OFDM		17.0	7.5	24.5	0.282	10	1	0.282	24.50
							3	1.407	31.48	

MPE exposure is based on two $2.4 \, \text{GHz}$ pre-approved modules with one $4.9 \, \text{GHz}$ transmitter. Device can be programmed to transmitt simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$

Frequency (MHz)	MPE Limit (mW/cm²)	Eirp (mW)	Pd at 20cm (mW/cm ²)	Distance where Pd = Limit (cm)
2400 - 4990	1	1687.02	0.34	11.6

ſ	Band	Mode	Output	Power	Antenna gain	EI	RP	Channels Available	Channels Used	Total I	EIRP
	Dallu	Peak Average		(Max)	dBm	W	Charineis Available	Charineis Oseu	W	dBm	
ſ	2400 - 2483.5	CCK	-	20.0	7.5	27.5	0.562	11	1	0.562	27.50
ſ	2400 - 2483.5	CCK	-	20.0	7.5	27.5	0.562	11	1	0.562	27.50
Ì	2400 - 2483.5	CCK	-	20.0	7.5	27.5	0.562	11	1	0.562	27.50
Ì								Totals:	3	1.687	32.27

MPE exposure is based on three 2.4GHz transmitter. Device can be programmed to transmitt simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$

Frequency (MHz)	MPE Limit (mW/cm ²)	Eirp (mW)	Pd at 20cm (mW/cm ²)	Distance where Pd = Limit (cm)
2400 - 4990	1	1126.02	0.22	9.5

Band	Mode	Output	Power	Antenna gain	E	IRP	Channels Available	Channels Used	Total I	IRP
Daliu	Wiode	Peak	Average	(Max)	dBm	W	Citatilieis Available	Chariners Osed	W	dBm
2400 - 2483.5	CCK	-	20.0	7.5	27.5	0.562	11	1	0.562	27.50
4940 - 4990	OFDM	-	17.0	7.5	24.5	0.282	10	1	0.282	24.50
4940 - 4990	OFDM	-	17.0	7.5	24.5	0.282	10	1	0.282	24.50
						•	Totals:	3	1.126	30.52

MPE exposure is based on two 4.9GHz transmitter and one 2.4GHz radio. Device can be programmed to transmitt simultaneously.

MPE Calculations (Fixed Location)

The device is not a portable device (i.e. intended to be worn on the body or be hand-held), so it is classified as a fixed mounted device. The user's manual specifies a minimum separation distance of at least 35cm, consistent with this classification.

FCC part 1.1310, Table 1 limits the power density for uncontrolled exposure. The power density, Pd (mW/cm2) calculated from the maximum EIRP, Pt (mW) and the distance, d (m), between the transmitting antenna and the closest person, can be calculated using:

Formula is:

 $Pd = Pt / (4*pi*d^2)$

Frequency (MHz)	MPE Limit (mW/cm²)	Eirp (mW)	Pd at 20cm (mW/cm ²)	Distance where Pd = Limit (cm)
2400 - 4990	1	11333.35	2.25	30.0

Band	Mode	Output	Power	Antenna gain	EI	RP	Channels Available	Channels Used	Total I	EIRP
Danu	Wode	Peak	Average	(Max)) dBm W Charmels Available		Charmers Osed	W	dBm	
2400 - 2483.5	CCK		13.0	21.0	34.0	2.512	11	1	2.512	34.00
2400 - 2483.5	CCK		13.0	21.0	34.0	2.512	11	1	2.512	34.00
4940 - 4990	OFDM	-	17.0	21.0	38.0	6.310	10	1	6.310	38.00
							Totals:	3	11.333	40.54

MPE exposure is based on two 2.4GHz pre-approved modules with one 4.9GHz transmitter. Device can be programmed to transmitt simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$

Frequency (MHz)	MPE Limit (mW/cm²)	Eirp (mW)	Pd at 20cm (mW/cm ²)	Distance where Pd = Limit (cm)
2400 - 4990	1	7535.66	1.50	24.5

Band	Mode	Output	Power	Antenna gain	EI	RP	Channels Available	Channels Used	Total I	EIRP
Dallu	wode	Peak	Average	(Max)	dBm	W	Charineis Available	Charineis Oseu	W	dBm
2400 - 2483.5	CCK		13.0	21.0	34.0	2.512	11	1	2.512	34.00
2400 - 2483.5	CCK	-	13.0	21.0	34.0	2.512	11	1	2.512	34.00
2400 - 2483.5	CCK	-	13.0	21.0	34.0	2.512	11	1	2.512	34.00
							Totals:	3	7.536	38.77

MPE exposure is based on three 2.4GHz transmitter. Device can be programmed to transmitt simultaneously.

Formula is:

 $Pd = Pt / (4*pi*d^2)$

Frequency (MHz)	MPE Limit (mW/cm²)	Eirp (mW)	Pd at 20cm (mW/cm ²)	Distance where Pd = Limit (cm)
2400 - 4990	1	15131.03	3.01	34.7

Band	Mode	Output Power		Antenna gain EIRP		Channels Available	Channels Used	Total I	EIRP	
Danu	Mode	Peak	Average	(Max)	dBm	W	Citatilleis Available	Charines Oseu	W	dBm
2400 - 2483.5	CCK		13.0	21.0	34.0	2.512	11	1	2.512	34.00
4940 - 4990	OFDM	-	17.0	21.0	38.0	6.310	10	1	6.310	38.00
4940 - 4990	OFDM	-	17.0	21.0	38.0	6.310	10	1	6.310	38.00
				<u> </u>			Totals:	3	15.131	41.80

MPE exposure is based on two 4.9GHz transmitter and one 2.4GHz radio. Device can be programmed to transmitt simultaneously.