

Appendix 3

CALCULATION STANDARDS TABLE OF FIXED TELECOMMUNICATIONS FREQUENCY

Frequency utilized	Calculation Formula (per station)
Center frequency < 30MHz	$\left\{ \left[\frac{BW}{3kHz} \right] \times \left[\frac{W}{25watts} \right] \times 1,000 \right\} \times d$
30MHz \leq center frequency < 1GHz	$\left\{ \left[\frac{BW}{12.5kHz} \right] \times \left[\frac{W}{25watts} \right] \times 5,000 \right\} \times d$
1GHz \leq center frequency < 3GHz	$\left\{ \left[\frac{BW}{1MHz} \right] \times \left[\frac{W}{1watts} \right] \times 8,000 \right\} \times d$
3GHz \leq center frequency < 12GHz	$\left\{ \left[\frac{BW}{1MHz} \right] \times \left[\frac{W}{1watt} \right] \times 10,000 \right\} \times d$
12GHz \leq center frequency < 23GHz	$\left\{ \left[\frac{BW}{1MHz} \right] \times \left[\frac{W}{1watt} \right] \times 6,000 \right\} \times d$
23GHz \leq center frequency < 31GHz	$\left\{ \left[\frac{BW}{1MHz} \right] \times \left[\frac{W}{1watt} \right] \times 4,000 \right\} \times d$
31GHz \leq center frequency < 42GHz	$\left\{ \left[\frac{BW}{1MHz} \right] \times \left[\frac{W}{1watt} \right] \times 2,500 \right\} \times d$

42GHz \leq center frequency < 70GHz	$\left\{ \left[\frac{BW}{1MHz} \right] \times \left[\frac{W}{1watt} \right] \times 1,000 \right\} \times d$
70GHz \leq center frequency	$\left\{ \left[\frac{BW}{1MHz} \right] \times \left[\frac{W}{1watt} \right] \times 500 \right\} \times d$

Remarks:

1. BW: Assigned bandwidth
W: Transmission power of transmitter, (Watts)
D: Adjustment factor (as annex 2)
2. If the assigned bandwidth of non-profit governmental institute exceeds 20MHz, 20MHz shall be used in the calculation formula. If the assigned bandwidth of other institutes exceeds 56 MHz, 56MHz will be used in the calculation formula.
3. If the transmission power of transmitter is does not exceed 0.5W, 0.5W shall be used in the calculation formula. If the transmission power is higher than 100W, 100W shall be used.
4. The utilization fee of LMDS (Local Multipoint-Distribution System) will be calculated by per Hub respectively (charged according to the bandwidth and power; assigned bandwidth will not be restricted by the 56 MHz limit) .
5. Wireless local loop: A fixed communications operator that applies for constructing a wireless local loop in 3.4~3.7GHz shall pay the frequency utilization fee. The utilization fee = utilization fee per MHz *assigned frequency bandwidth * business category adjustment factor * territory factor (the utilization fee per MHz and business category adjustment factor shall refer to the factors used for 3G mobile communications business, which are NT\$10,675,000 and 1, the territory are divided as total area, northern area, central area and southern area, territory factors are referred as annex 1, total area=1, northern area=0.45, central area= 0.25, southern area= 0.3).
6. Only the transmitter will be charged the utilization fee; the receiving end will not be charged.