

MEDIATEK

MT7986

Power Percentage Application Note

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Power Percentage Purpose

- Purpose: Drop Target TX power by a percentage.
- TX Power Percentage is 100% in default.
- We can use profile with column name "**PERCENTAGEenable**" and "**TxPower**" to control TX power percentage when system boot up. Profile path can be referred as below.

Tx Power Percentage Config

profile path

- /etc/wireless/mediatek/mt7986.1.dat
- /etc/wireless/mediatek/mt7986.2.dat

enable power percentage in the profile dat of the setting

- PERCENTAGEenable=1
- TxPower=50

disable power percentage in the profile dat of the setting

- PERCENTAGEenable=0
- TxPower=100

iwpriv command

Runtime Config Purpose

enable tx power percentage (power 50% off)

- *iwpriv ra0 set PercentageCtrl=1*
- *iwpriv ra0 set PowerDropCtrl=50*

disable tx power percentage

- *iwpriv ra0 set PercentageCtrl=0*
- *iwpriv ra0 set PowerDropCtrl=100*

check tx power percentage on/off

- *iwpriv ra0 set TxPowerInfo=0*

Power Drop range

Power percentage rate	Power Drop
90 < PowerDropCtrl <=100	0 dB
60 < PowerDropCtrl <= 90	1 dB
30 < PowerDropCtrl <= 60	3 dB
15 < PowerDropCtrl <= 30	6 dB
9 < PowerDropCtrl <= 15	9 dB
0 < PowerDropCtrl <=9	12 dB

Thank you
Questions and Discussions

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