

May 21, 2025

FCC ID: PENAQ10

To whom it may concern,

We, UL Japan, Inc, hereby declare that UWB Module, model: AQ10 (FCC ID: PENAQ10) of AISIN CORPORATION is exempt from RF exposure SAR evaluation as its output power meets the 1-mW test exemption threshold stated in the Code of Federal Regulation title 47 section 1.1307(b)(3)(i)(A).

UWB part:

This device available maximum time-averaged power is 0.02 mW, so no other assessment is required.

Reference of average Power [EIRP]

EIRP specification value: -41.3 dBm/MHz = 0.00007413 mW/MHz

99 % occupied bandwidth = 611.485 MHz

$0.00007413 \text{ mW/MHz} \times 611.485 \text{ MHz} = 0.04533 \text{ mW} (-13.44 \text{ dBm})$

Reference of average Power [ERP]

$\text{ERP [dBm]} = \text{EIRP [dBm]} - 2.14 \text{ [dBi]} \text{ *isotropic antenna gain}$

$-13.44 \text{ dBm} - 2.14 \text{ dBi} = -15.58 \text{ dBm} = 0.02769 \text{ mW}$

Reference of average Power [Conducted]

$\text{Conducted power [dBm]} = \text{EIRP [dBm]} - \text{Antenna gain [dBi]} \text{ of this product}$

$-13.44 \text{ dBm} - 4.32 \text{ dBi} = -17.76 \text{ dBm} = 0.01676 \text{ mW}$

Thank you for your attention to this matter.



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