

RF Exposure Requirements

Product Description: Barcode Scanner

Model No.: NT-1228BC, NT-1228BL, NSL6BL, NSL8BL, M6, M8, W6-X, W7-X, W8-X,
NT-1202W, NT-1203, S6, S8, F20, K6, K8, NT-8099

FCC ID: 2ANYC-NT-1288BC

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz

- Power and distance are rounded to the nearest mW and mm before calculation¹⁷

- The result is rounded to one decimal place for comparison

Calculation Result:

BT (BR/EDR mode)

Tx frequency range: 2402-2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: -5.36dBm

Tune-Up output power: -5.5dBm

RF channel transmit frequency: 2402MHz

Result: 0.09

Limit: 3.0

The exclusion threshold is $0.09 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.

BT (BLE mode)

Tx frequency range: 2402-2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: -6.26dBm

Tune-Up output power: -6.50dBm

RF channel transmit frequency: 2402MHz

Result: 0.07

Limit: 3.0

The exclusion threshold is $0.07 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.