

Low drive, Low Frequency I/O

Device affected	Variant	HW revision	Date Code	Lot Code
ISP1507	AX	B	All	All

Date (YYYY-MM-DD)	PAN number	Document version
2021-10-08	PAN_214051	1.0

Symptoms

On ISP1507-AX when GPIO pin P0.19 has a high frequency digital signal (input or output) the BLE radio is perturbed and the BLE connection can be lost.

Workaround

Do not use GPIO P0.19 for high frequency signals and/or with high drive levels. Avoid using for I2C, SPI etc.

Additional Information

Refer to the nRF52832 data sheet recommendations for GPIO usage on other pins to avoid radio disturbance. Avoid using GPIO pins listed below.

Table 6: GPIO recommended usage for WLCSP package

Pin	GPIO	Recommended usage
F2	P0.22	Low drive, low frequency I/O only.
E2	P0.23	
E1	P0.24	
B3	P0.25	
D3	P0.26	
B4	P0.27	
A3	P0.28	
A4	P0.29	
A5	P0.30	
B5	P0.31	