PRODUCT BULLETIN

OVERVIEW

DATE ISSUED:	April 24, 2023.	**TRACKING NUMBER:**	**4134944**
ISSUED BY:	IoT Solutions Product Management		
PRODUCTS AFFECTED:	EM9190, EM9191, EM7690		
SKUS AFFECTED:	Not SKU dependent		
BULLETIN:	Sleep current higher than listed in the PTS.		
	Normal		
FOR DISTRIBUTION TO:	All customers		

Summary

The module current draw in firmware 03.10.07.00 with the host interface suspended has been measured to be higher than listed in the PTS. An investigation is ongoing to determine the cause and resolve the issue.

Change Details

Module states with the host interface suspended is commonly referred to as sleep mode.

EM919x PTS (Doc # 41113174) Table 5-1 lists the following for current in sleep mode:

Signal	Description	Bands[b]	Current[c]			Notes / configuration
			Typ	Max	Unit	
	Standby current consumption (Sleep Mode[d])					
	5G	NR bands	2.7	—	mA	DRX cycle = 1.28 s
	LTE	LTE bands	2.7	—	mA	DRX cycle = 1.28 s
	HSPA / WCDMA	UMTS bands	2.6	—	mA	DRX cycle = 2.56 s

Firmware version 03.10.07.00 has been measured at approximately 3 times the PTS values. It is understood which firmware check-ins introduced the change. The fix investigation is continuing. (to return the sleep current to values advertised in the PTS).

Firmware 03.10.07.00 has already been approved by TMO, Docomo, KDDI, and Rogers.
The TA candidate firmware under testing at Verizon also still has the issue.

Given that the current certification cycle is well underway with the Release 5 (03.10.xx) firmware, the intend is to fix this issue in the next, future, yet to be scheduled, maintenance release.

Timeline

Effective: April 24, 2023.

More information

- This notification will be updated once more information is known.