

Product Change Notice ISP4520_PCN_V1.0

Device affected	Package Codes
ISP4520EU	Change from Hardware Revision D to Hardware Revision E
ISP4520US	Change from Hardware Revision A to Hardware Revision B
ISP4520AS	Change from Hardware Revision A to Hardware Revision B

Date (YYYY-MM-DD)	PAN number	Document version:	
2020-10-19	ISP4520_PCN	1.0	

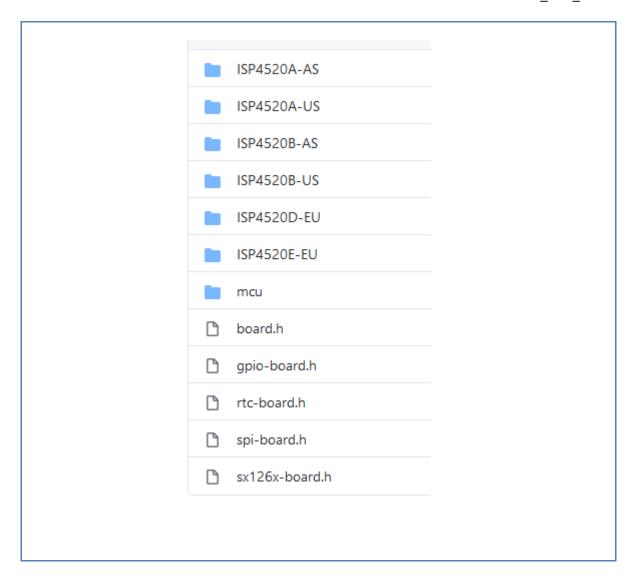
Change log

Version	Change #
ISP4520EU	Product Change from Revision D to Revision E
ISP4520US	Product Change from Revision A to Revision B
ISP4520AS	Product Change from Revision A to Revision B
13F432UA3	Troduct Change from Nevision / to Nevision B
	In order to improve LoRa performance when using High Spreading
	Factors (SF>=10) the source for the 32 MHz clock has been changed.
	The Initial engineering versions (D for EU and A for US and AS) use a
	32 MHz crystal and the oscillator circuit in the SX1261/2.
	The production versions (E for EU and B for US and AS) use a more
	accurate TCXO to ensure better stability during long Tx bursts.
	The difference between engineering and production versions is
	indicated in the data sheets "isp_lora_DS4520_R5.pdf",
	"isp_lora_DS4520_R6.pdf" respectively.
	isp_iora_b34320_ko.pdr Tespectivery.
	Both data sheets are available on Insight SiP website.
	The above differences between engineering and production versions
	of the module require some minor modifications to the firmware.
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	Insight SiP supplies source code examples as a starting point for
	development of LoRa and LoRa WAN solutions. These can be found on
	Insight SiP's Github: https://github.com/insightsip/ISP4520-examples
	For each version of the module (EU, US, AS) and each revision (D/E
	and A/B) there are specific branches of the code that modify the
	hardware drivers to accommodate the differing hardware operations.
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	In particular the hardware drivers are located on the following page of
	the github: https://github.com/insightsip/ISP4520-
	examples/tree/master/src/lora/boards:
	The screen shot on the next page shows the different options that are available.



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When updating from the engineering module version to the certified production version the firmware code must be adjusted using the github examples as a guide.