PCN Product Change Notifcation

for issue #2026-17-04-01

Title:	SX126x Software Load Capacitance Calibration required		
PCN #:	2026-17-04-01	Notification Date	Current Date

Reason for Change	
☐ Material / Composition	☐ Design / Firmware
☒ Processing / Manufacturing	☐ Other: Other reason

Change Description

The crystal oscillator on SX126x-based LoRaWAN modules has been replaced with an alternate-source component due to EOL of the original part. The replacement crystal requires a different load capacitance trim value, which must be applied in firmware via the SX126x XO trim register.

Impact and Recommended Action

Devices using a hardcoded or default trim value from a previous module generation will experience a frequency offset that may reduce link budget or cause communication failures in marginal coverage conditions. Customers must update their firmware to apply the correct per-module trim value on startup. Full details on obtaining the value and integrating it into firmware are provided in the SX126x Load Capacitance Calibration application note.

Products Being Changed

Part Number	Part Name	Description
FMLR61-X-STL0Z	FMLR61 STL0	All FMLR61 modules with STML0 (U/P and 4M Variants)
FMLR61-X-STL4E	FMLR61 STL4	All FMLR61 modules with STML4 (U/P and 4M Variants)
Part Number	Part Name	Part description
Part Number	Part Name	Part description
Part Number	Part Name	Part description

Miromico Contact

Please contact your distributor for additional information.

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