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lamaPLC: AI-Thinker LoRA products

Ai-Thinker's LoRa product line is divided into the Ra Series (SPI-based), which provides raw access to the radio chip for custom protocols, and the LoRaWAN Series (SoC-based), which includes an integrated MCU and pre-installed AT firmware for standard network connections.

Product Series	Model	Frequency	Core Chip	Interface	Primary Use Case
Ra Series (SPI)	Ra-01	410-525 MHz	SX1278	SPI	Low-cost DIY, spring antenna included
	Ra-02	410-525 MHz	SX1278	SPI	Point-to-point, external IPEX antenna
	Ra-01H	803-930 MHz	SX1276	SPI	High-frequency (EU868/US915) DIY projects
	Ra-01S/SC	410-525 MHz	SX1268/LLCC68	SPI	Modern replacement for Ra-01/02 with better efficiency
LoRaWAN (SoC)	Ra-07/07H	410-960 MHz	ASR6501	UART (AT)	Integrated Cortex-M0+; standard LoRaWAN nodes
	Ra-08/08H	410-930 MHz	ASR6601	UART (AT)	Integrated Cortex-M4; supports LoRaWAN/LinkWAN
	Ra-09	410-525 MHz	STM32WLE5	UART/SPI	High-performance industrial IoT; multi-modulation support

Lora topics on lamaPLC

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<ul style="list-style-type: none"> lamaPLC Communication: LoRa, LoRaWAN and LoRa Mesh 	2024/11/15 20:19	communication , bus , lora , lorawan , loramesh , mesh , ism , the things network , ttn , aloha , beaconing , csma , csma-ca , mac , adaptive data rate , adr , spreading factor , sf , transmission power , eu863 , eu863-870 , eu433 , us902-928 , au915-928 , as923 , in865-867 , cn433 , cn470 , cn779 , cn920 , semtech , sx1261 , sx1262 , sx1276 , sx1272 , sx1278 , encoding rate , er , time on air , toa , iot , netid , listen before talk , lbt
<ul style="list-style-type: none"> lamaPLC: AI-Thinker LoRA products 	2026/03/05 15:27	ai-thinker , lora manufacturer , communication , lora , modul
<ul style="list-style-type: none"> LamaPLC: Arduino MKR Family 	2025/08/24 10:19	arduino , board , mkr fox 1200 , mkr zero , ethernet , shield , m-bus , rs-485 , can , env , sd card , rgb , gps , iot , wifi , sigfox , lora , gsm , lte-m
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