










FMLR Module Product Family



	Available				Coming soon				
									
	FMLR-72-STL0Z	FMLR-80-STL4E	FMLR-61-RSS3	FMLR-61-MA625	FMLR-61-STL0Z	FMLR-81-STL0Z	FMLR-1110-STL0Z	FMLR-WL-STE5	FMLR-DA16200
Radio	SX1272	SX1280	SX1261	SX1261	SX1261	SX1281	LR1110	SX126x	DA16200
MCU	STM32L0	STM32L4F	Renesas S3	MAX32625	STM32L0	STM32L0	STM32L0	STMWLE5x	DA16200
Core	Cortex®-M0+	Cortex®-M4F	Cortex®-M4	Cortex®-M4F	Cortex®-M0+	Cortex®-M0+	Cortex®-M0+	Cortex®-M4	Cortex®-M4F
Flash	192 kB	512 kB	256 kB	256 kB	192 kB	192 kB	192 kB	256 kB	4 MB
RAM	20 kB	160 kB	32 kB	128 kB	20 kB	20 kB	20 kB	64 kB	512 kB
Frequency	860 - 1020 MHz	2.4 GHz	150 - 960 MHz	150 - 960 MHz	150 - 960 MHz	2.4 GHz	150 - 960 MHz	150 - 960 MHz	
Modulation	LoRa, LR-FHSS, (G)FSK, OOK	LoRa, FLRC, (G)FSK	LoRa, LR-FHSS, (G)FSK	LoRa, LR-FHSS, (G)FSK	LoRa, LR-FHSS, (G)FSK	LoRa, FLRC, (G)FSK	LoRa, LR-FHSS, (G)FSK	LoRa, LR-FHSS, (G)FSK	Wifi (2.4 GHz)
Features		HW ranging, TXCO		Secure device w. MAX32626			Wifi scanning, GPS scanning		
Options	ext. flash, U.FL, rH/T Sensor	ext. flash, U.FL, STM32L0	ext. flash, U.FL, Renesas S1	MAX32626	ext. flash, U.FL, STM32L4, TXCO	ext. flash, U.FL	ext. flash, U.FL, STM32L4, LR1120	ext. flash, U.FL, dual core MCU	U.FL
Protocols	LoRaWAN, WM-Bus	LoRaWAN 2G4, BLE	LoRaWAN	LoRaWAN	LoRaWAN, Mioty, WM-MBus, Sigfox	LoRaWAN 2G4, BLE	LoRaWAN	LoRaWAN, Mioty, WM-MBus, Sigfox	WiFi
Footprint	Miromico Standard Module Footprint (MSMF)			MA625	Miromico Standard Module Footprint (MSMF)				
Size	14 × 19.5 mm			8.5 × 9.3 mm	14 × 19.5 mm				

All modules are optimized for lowest power consumption and allow to run user application and wireless stack on the integrated MCU.

Miromico Standard Module Footprint (MSMF) allows to change technology, frequency and chipset without hardware change. Interface compatibility is maintained as much as possible among modules.