

Smart Antenna Demonstrator

Melexis Zone Detection Solution

The Melexis Smart Antenna demonstrator module is composed of the MLX73290-UHF transceiver, the MLX74190-LF initiator and the MLX81109 LIN-Slave, with the purpose of providing a complete zone detection solution for cars and off-road vehicles. The demonstrator module can be integrated with the vehicles using automotive standard LIN interface and passively identifies the presence of an authorized user through a high power LF wake-up mechanism and UHF identification exchange

Applications

- Automotive & Motorcycle Passive Keyless Start systems
- Off-road vehicles "Dead Man's Switch"
- Passive door access systems (garage door, building ...)
- Intelligent pet feeder

Ordering Information

The Smart antenna demonstrator is available for ordering by contacting your Melexis sales contact or directly by placing an order to <u>sales europe@melexis.com</u> or <u>sales usa@melexis.com</u> (Ordering references; DMB_SmartAntenna & MLX LIN Master)









Bus ICs

SOL

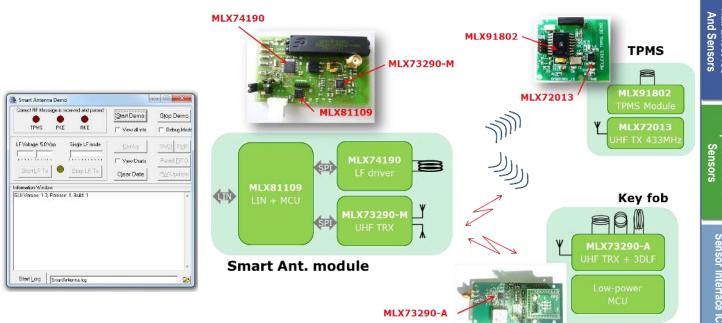
InfraRed Sensors

Features & Benefits

- Automatic reception of TPMS, RKE and PKE data information
- LF/UHF intelligent self-polling modes for ultra low power operations .
- UHF Frequency optimized for 433.92MHz, $\Delta f \pm 20$ kHz (GFSK), DR of 9.6kbps operation .
- Very good UHF sensitivity < -115dBm for maximum RKE operation range .
- UHF encrypted communication AES-128 .
- LF-125kHz High power capability up to 2.5Ap for maximum PKE operating range
- ASK & FSK immobilizer capabilities •
- RSSI information for LF and RF interfaces .
- 3DLF interface for ultra low-power wake-up $<4\mu$ A (Key side)
- LIN-interface with embedded firmware example (control of MLX74190 and MLX73290-M ICs)
- Graphical User Interface (GUI) for easy and guick evaluation .
- Rated for operation from -40 to 105°C .

Related Melexis Products

Part Code	Temperature Code	Package Code	Option Code
MLX74190	R (-40°C to 105°C)	PF (TQFP 7x7 48 leads)	AAA-000
MLX81109	K (-40°C to 125°C)	LQ (QFN20 5x5)	BAA-000
MLX73290-M	R (-40°C to 105°C)	LQ (QFN32 5x5)	BBM-000
MLX73290-A	S (-20°C to 85°C)	LQ (QFN32 5x5)	ABA-000
MLX91802	K (-40°C to 125°C)	XZ (SO16-wide)	DBU-000





For additional information email info@melexis.com or go to our website at: www.melexis.com

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