



## Features

- LoRa™ spread spectrum modulation technology
- Receive sensitivity as low as -141 dBm
- Excellent resistance to blocking
- Supports preamble detection
- Supports half-duplex SPI communication
- Programmable bit rate up to 300Kbps
- Supports FSK, GFSK, MSK, GMSK, LoRa™ and OOK modulation modes
- Supports automatic RF signal detection, CAD mode and ultra high speed AFC
- Packets with CRC, up to 256 bytes
- Small package with double volume stamps

## Overview

### Professional

- Drive and positioning of Single or Dual Axis Solar Trackers
- Usable by single to four axis trackers
- Integration of Sat Control equipment into existing control-room technology with RS485, LoRa or ZigBee communication

### Flexible

- Data interface in accordance with the communication standards in the field of automation technology with the possibility of changing the communication
- Simple and fast installation, high reliability

### Reliable

- Meets the requirements of the EU Low-Voltage Directive for grid safety management



Made in Europe

## Technical Capabilities

Compatible with boards	NANO-D pozitioner TIV34D-rev.5, LoRa2RS485 converter TIV49A, KVARK-F TIV30F
Frequency	BAND1: 410-525 MHz, BAND2: 862-1020 MHz (optionally) Up to 100 programmable channels
Output power	selectable: 11-20 dBm, Max output power: 100mW Electrical
Characteristics	Operating voltage: 3,3V
Operating current	Typical: 10mA, MAX: 120mA
Chipset	LoRa RA-01 BAND1 SX1278, BAND2 (optional)
Antenna connector	RP-SMA (reverse polarity- center pin) or U.FL (optional) extension cable connector (optionally)

## Ordering information for RF antenna extension cables

Coax cable LMR 195 w con. RP-SMA-F/RP-SMA-M L=0,5M, water protected, UV stable	
Code	6108
Code 2	KABLMR195L0.5M

Coax cable LMR 195 w con. RP-SMA-F/RP-SMA-M L=2,0M, water protected, UV stable	
Code	6109
Code 2	KABLMR195L2.0M