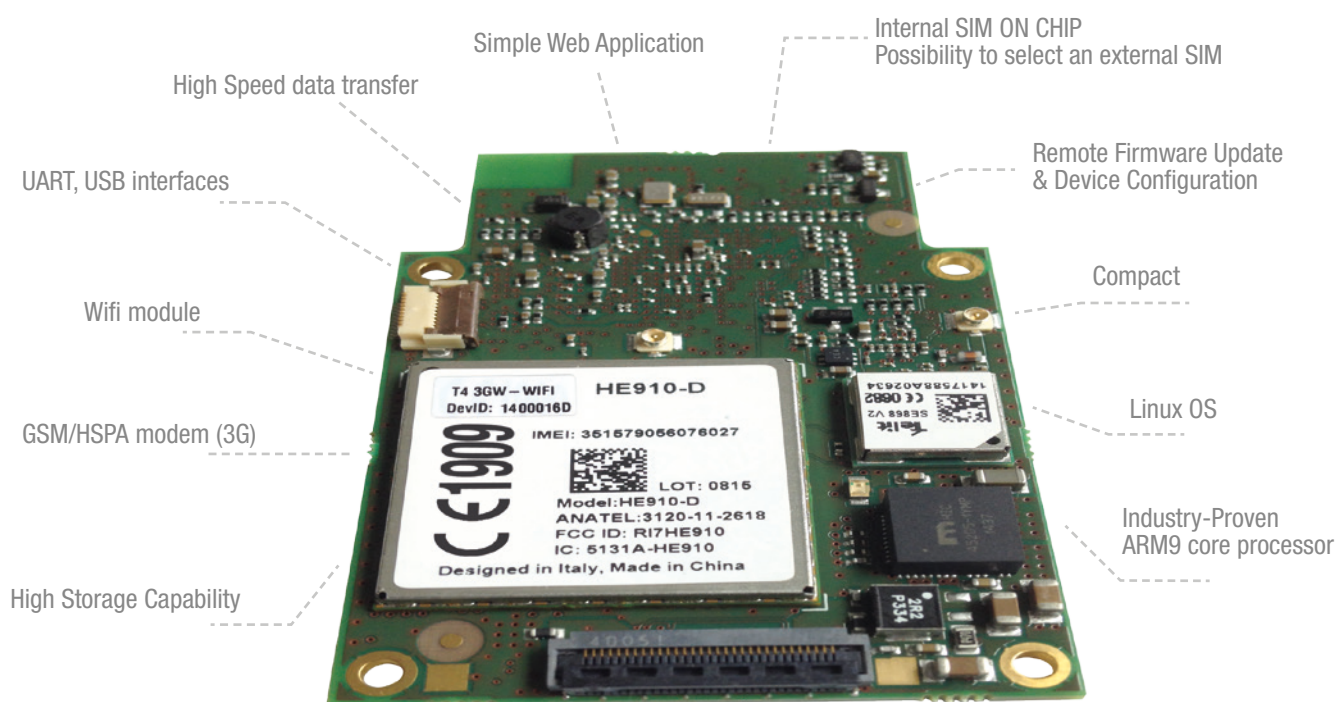




TD44

TIERRA TELEMATICS DEVICE



Tierra Telematics Device

The system described in this document applies to a new generation of connectivity boards called TD44.

The development of this new generation is focused on the high speed data transfer and Linux OS, software platform.

The basic functions of the board are:

- definition of the position via GNSS sensor and logging
- radio communication via a 3G modem and a wifi LAN connection
- high speed communication via USB link (OTG)



TD44 Specifications			
Microprocessor	MCiMX28x		
Memory			
RAM	128MB		
eMMC	4GB		
Ports & Connectors			
Serial Port	UART (1x)		
USB	HIGH SPEED		
Connector	Main: Hirose 31 pin	GNSS CELLULAR: uFL	Exit SIM: Hirose 10 pin
Real Time Clock	Yes		
GSM/HSPA modem	<ul style="list-style-type: none"> Supported frequencies GSM/GPRS/EDGE: 850, 900, 1800,1900 - UMTS/HSPA: 800/850, 900, AWS1700, 1900, 2100 MHz HSPA+ data up to 21.0 Mbps downlink / 5.76 Mbps uplink Quad band GPRS and EDGE 3GPP release 7 compliant Sensitivity: - 111 dBm @ UMTS - 109 dBm @ GSM 850/900 MHz - 110 dBm @DCS1800 / PCS1900 MHz 		
Antennas (External)	GNSS & CELLULAR		
GNSS Receiver			
Frequency	GPS L1, Glonass L1, QZSS L1		
Channels	20-channel, speed information		
Tracking Sensitivity	Acquisition: -147 dBm	Tracking: -166 dBm	
Positional accuracy (CEP50)	Autonomous Positional Error 2.5 m		
Accuracy	Speed: 0.01 m/s	Heading: 0.01 deg	
Time to first Fix (90% @ -130 dBm)	Hot Start: 1 s	Cold Start: <35 s	
Wifi	802.11 b/g/n		
Power Supply	- Ground and battery - Voltage: 4,7 to 16V		
Remote Capabilities			
Configuration	Yes		
Firmware Update	Yes (OTA)		
Physical			
Dimensions	L: 70 mm x W:46 mm x H: 7 mm		
Weight	16 grams		