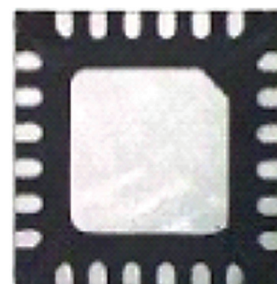
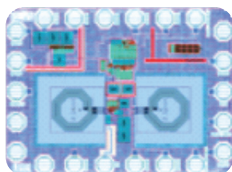


Single chip RF Transponder in SiGe technology for high RF performance

- Downlink optimized IF Bandwidth with high sensitivity -44dBm
- Uplink with Phase or Amplitude modulation
- Programmable RF amplifiers & RF filters
- SPI controlled
- Ultra Low Power listen mode <math><4\mu\text{A}</math> with AM detector wakeup
- Plastic package for cost effectiveness
- Over 7 years battery Life Time operation
- Over 10 Million units now On the Road

5.8GHz TRX for Electronic TAG

- DSRC SiGe Transponder for ITS
- ETSI ES 200 674/EN 300 674 pattern compatible
- High sensitivity @ low current
- -40 to +90°C operation
- QFN 4x4

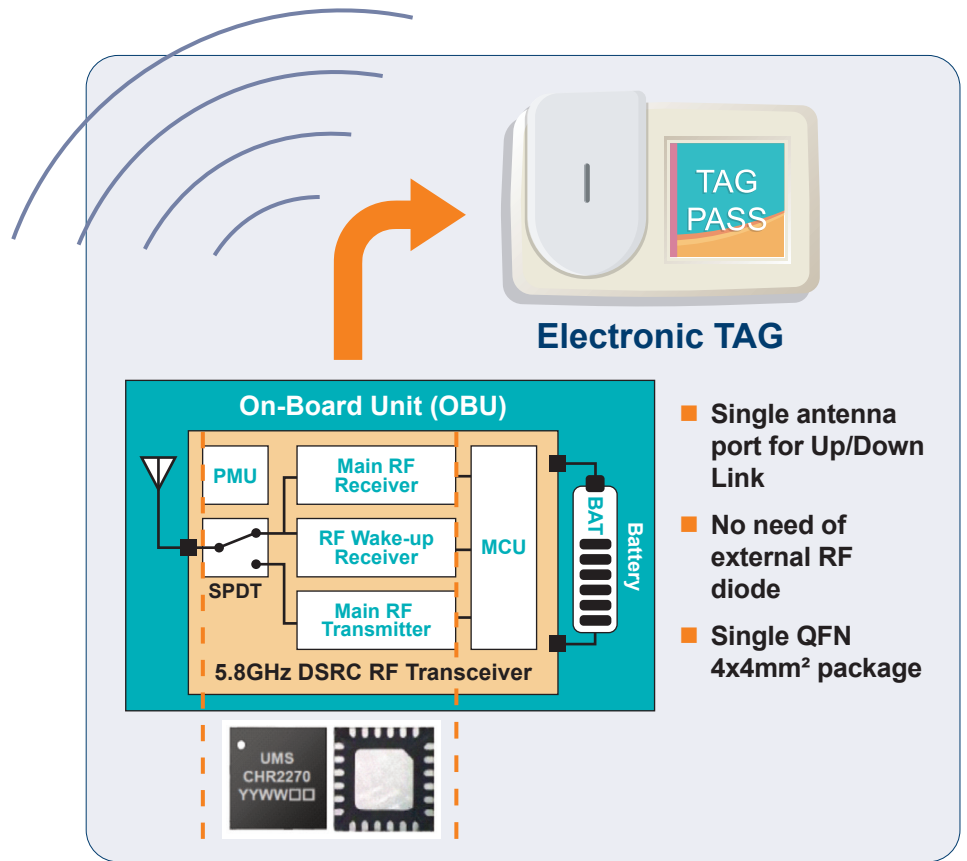


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Get high & repeatable performance with a fully integrated RF to IF Solution



UMS CHR2270-QRG TRANSPONDER

Part Number	RF Bandwidth (GHz)	Downlink Sensitivity (dBm)	Downlink Freq (kHz)	Uplink Conversion Gain (dB)	Uplink Freq (MHz)	Standby Current (μA)	Case
CHR2270-QRG	5.72-5.88	-44	250-500	-3	DC-30	4	QFN

Open your Road with our CHR2270-QRG



In the context of electronic toll collection, DSRC enables communication between toll collection devices and vehicles equipped with compatible systems. For electronic toll collection, this allows for seamless and quick transmission of data, such as toll fees and vehicle information, facilitating efficient and automated toll payment processes without the need for physical toll booths or manual transactions.

As a consequence, for the users it allows for smoother drive-through at toll stations, avoiding waiting times, traffic jams, and higher energy consumption through stop and go driving in front of classical toll barriers.



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