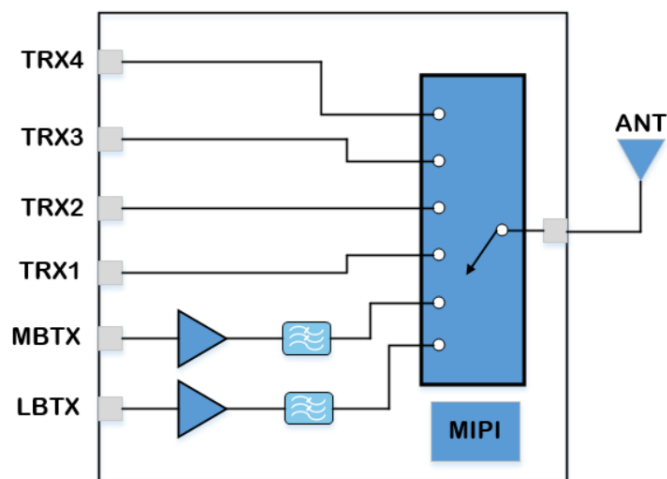


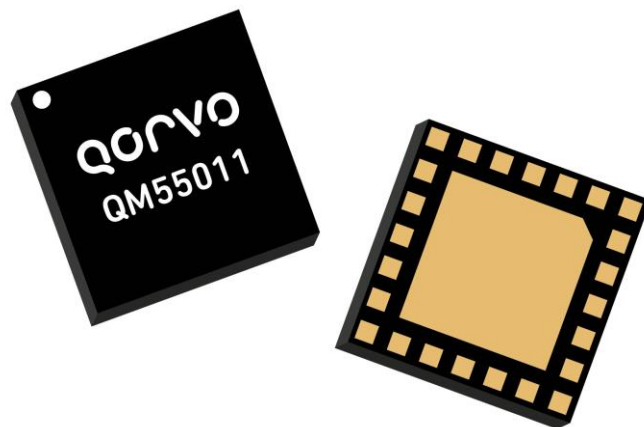
Product Overview

QM55011 is a hybrid, multi-band multi-chip RF front-end (RFFE) module supporting for NB-IoT1/2, Cat-M1/2 and NTN Non-Terrestrial-Networks application. The module supports LB (663MHz – 915MHz) and MB (1695MHz – 2010MHz). It has integrated harmonic rejection LPF, antenna switch and auxillary TX/RX path. QM55011 band select and bias are programmed through a Mobile Industry Processor Interface (MIPI).

Functional Block Diagram



Functional Block Diagram



Package: Module, 24-Pin 3.00 x 3.00 x 0.60 mm

Key Features

- Integrated Switch Supports Multiple TX and RX paths
- MIPI RFFE Digital Control Interface
- Integrated harmonic reject LPF
- TRX switch ports support 2G power level
- Optimized use with DC/DC Converter Operation
- Average Power Tracking
- Optimized for Narrow-Band IoT1/2 and Cat-M1/2
- Programmable Bias Level Control
- 2.5V and 3.0V supplies

Ordering Information

Part Number	Description
QM55011EVB	Evaluation Board Sample Kit
QM55011SB	5-Piece Sample Bag
QM55011SR	100-Piece 7inch Sample Reel
QM55011TR13	5000-Piece 13inch Reel

Applications

- Operating mid-bands: 1, 2, 3, 4, 25, 39, 65, 66, 70
- Operating low-bands: 5, 8, 12, 13, 14, 17, 18, 19, 20, 26, 27, 28, 71, 85
- Narrow-Band IoT1/2 and Cat-M1/2
- NTN bands

Handling Precautions

Parameter	Rating	Standard
ESD – Human Body Model (HBM)	Class 2	ESDA/JEDEC JS-001-2012
ESD – Charged Device Model (CDM)	Class C3	JEDEC JESD22-C101F
MSL – Moisture Sensitivity Level	MSL3	IPC/JEDEC J-STD-020



Caution!

ESD sensitive device

Solderability

Compatible with both lead-free (260 °C max. reflow temperature) and tin/lead (245 °C max. reflow temperature) soldering processes.

Package lead plating: Electrolytic plated Au over Ni

RoHS Compliance

This part is compliant with the 2011/65/EU RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment), as amended by Directive 2015/863/EU.

This product also has the following attributes:

- Halogen Free (Chlorine, Bromine)
- Antimony Free
- TBBP-A (C₁₅H₁₂Br₄O₂) Free
- SVHC Free

Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations:

Web: www.qorvo.com

Tel: 1-844-890-8163

Email: customer.support@qorvo.com

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