Product catalog

# Frequency Conversion Subsystems

Frequency conversion subsystems combine converters, mixers, LO references, IF gain, filtering and control in a coordinated RF assembly. They translate signals between operating bands and IF stages for receivers, transmitters and RF test platforms.



Products: 2

Revision: 5 · Revision date: 2026-11-11



## LCMIXUD-380-18000-2G

### 0.38–18 GHz RF Up/Downconverter Module with Internal LO

Separate upconversion and downconversion paths cover 0.38–18 GHz RF and 3.6 ±1 GHz IF, with up to 2 GHz instantaneous bandwidth. Both paths support direct operation over 0.38–4.6 GHz; internal LO sources and SPI control are integrated.

**RF input frequency:** Specification: 0.38–18; Unit: GHz; Notes: Broadband RF input

**Converted IF output band:** Specification: 3.6 ±1; Unit: GHz; Notes: Nominal centre 3.6 GHz

**Direct RF output band:** Specification: 0.38–4.6; Unit: GHz; Notes: Separate output path without frequency conversion

**Instantaneous bandwidth:** Specification: Up to 2; Unit: GHz; Notes: Source description; converted IF operation

Product details Product datasheet



## LCMIXUD-6000-8500

### 6–8.5 GHz Integrated RF Up/Downconverter Module

Integrated conversion between 6–8.5 GHz RF and 3–5.5 GHz IF. The downconversion path provides 25 dB typical gain and 2 dB maximum noise figure; TTL control selects the active conversion direction.

**RF operating frequency:** Specification: 6–8.5; Unit: GHz

**IF operating frequency:** Specification: 3–5.5; Unit: GHz

**Downconversion gain:** Specification: 25; Typical; Unit: dB

**Downconversion noise figure:** Specification: 2; Maximum; Unit: dB

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**Document notice**

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.