

Full System-Level Reference

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[Maxim Integrated Products, Inc.](#) [1] (San Jose, CA) [[NASDAQ: MXIM](#) [2]] has introduced the MAX2580, a single-chip multistandard RF to Bits small cell radio transceiver. This highly integrated solution requires very few external components to execute an all-band, multimode, multiple-input multiple-output (MIMO) radio design. The MAX2580 design package also includes full system-level reference designs to shorten time to market. This RF transceiver is ideal for mobile operators planning residential, enterprise, or outdoor small cell deployments in their next-generation heterogeneous networks (HetNet). Key advantages include:

- High-performance radio: supports all LTE bands from Band 1 to Band 41 with selectable channel bandwidths from 1.4MHz to 20MHz; supports FDD-LTE, TD-LTE and WCDMA modes; enables the full breadth of indoor and outdoor small cell solutions.
- High integration: 2x2 MIMO RF to Bits architecture; integrates complete RF front-end, IF amplifiers, fractional-N synthesizers, all decimation, interpolation and channel selection filters, plus a parallel JESD207 data interface; the power amplifier (PA) pre-driver delivers 0dBm output power level.
- Fast time to market: full system-level reference designs available for indoor and outdoor applications.

For more information visit www.maximintegrated.com [1].

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