

LNA/PA RF Front End 1.5dB 15dB 28-Pin MCM

| Manufacturer: | Skyworks Solutions, Inc |
|---------------|-------------------------------|
| Package/Case: | SMD |
| Product Type: | RF Integrated Circuits |
| RoHS: | RoHS Compliant/Lead free RoHS |
| Lifecycle: | Active |



Images are for reference only

General Description

The Skyworks SKY65364-21 is a high-performance, transmit/receive (T/R) high-power front-end module. The device provides a complete T/R chain with T/R switches.

The device transmit chain features +30 dBm output power and a 40 percent power-added efficiency (PAE).

The device receive chain features a low-noise amplifier (LNA) with a 1.5 dB noise figure (NF) and 15 dB gain. The cascaded NF and gain, taking into account the 0.5 dB insertion loss transmit/receive antenna switch, are 2.1 dB and 14.5 dB, respectively, which makes the SKY65364-21 ideal for medium power microwave links such as 900 MHz Industrial, Scientific, and Medical (ISM) band applications.

The module also has a shutdown mode, PA bypass mode, and LNA bypass mode to minimize power consumption.

The device is mounted in a 28-pin, 6 x 6 mm Multi-Chip Module (MCM) surface-mount technology (SMT) package, which allows for a highly manufacturable low-cost solution.

Key Features

Transmit output power > +30 dBm

High-efficiency PA

Analog power control

Receive path NF <2.1 dB

PA bypass mode

LNA low-current mode with external resistor

LNA bypass mode

Integrated control logic

Internal RF match and bias circuits

All RF ports internally DC blocked

Shutdown mode

Small footprint MCM (28-pin, 6 x 6 mm) package (MSL3, 260 °C per JEDEC J-STD-020)

Recommended For You

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Application

Connected Homes

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