

# MoCA Hi-RF Front End IC

Mimix  
BROADBAND™

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X ZI003-QT  
X RoHS

## Features

- X MoCA Compliant Front-End IC
- X Linear Power Amplifier
- X Integrated PA Bias Control
- X Transmit/Receive Switch
- X Transmit Power Detector
- X Transmit Attenuator
- X Receive Attenuator
- X 3.3 or 5 Volt Single Supply
- X Integrated Digital Control Logic
- X Compatible with EN2210 and EN2510
- X RoHs Compliant 3x3mm QFN Package



## General Description

The XZ1003-QT is a front-end IC for MoCA Hi-RF applications which is compatible with current and future chipsets from Entropic Communications. It is housed in an industry standard 3x3mm QFN package and operates from a single 3.3 or 5 volt supply. Circuit operating modes are digitally controlled by Entropic's EN2510 and other compatible chipsets. The XZ1003-QT includes a power amplifier, power detector, transmit/receive switch, switched attenuators, bias circuits and digital control circuitry. A switched attenuator in the receiver provides an adjustable gain step set using one external resistor. The integrated transmitter bias circuit stabilizes amplifier performance over temperature and process variation with bias adjustment possible using an external pull-up/pull-down resistor. The transmit path includes a power detector and switched attenuator to allow for transmit power calibration.

Contact Mimix Broadband for a complete datasheet.