



Partners in RF & Microwave

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## MACOM Extends Leadership in Networking Applications with Integrated USB Receiver

*Receiver integrates LNA, Image Reject Mixer, and LO Doubler in an Integrated Device*

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Holdings Inc. ("MACOM"), a leading supplier of high performance RF, microwave, and millimeter wave products, today announced a new integrated USB receiver for point-to-point radios applications.



The [MADC-010736](#) is an innovative integrated receiver solution for customers who need a high performance receiver in the 42GHz PtP radio band. This product has an impressive IIP3 of 6dBm (typical at IF=2GHz), as well as excellent noise figure, conversion gain and image rejection. The LNC has an integrated LO buffer, LO doubler, LNA, and balanced image reject mixer. Operating over the 42 GHz band, the device is packaged in a 6mm lead free laminate package that is RoHS compliant and compatible with reflow temperatures to 260 °C, allowing it to be assembled into the application using standard surface mount production lines.

"The high 3<sup>rd</sup> order intermodulation performance of the MADC-010736 LNC enables customers to implement very high orders of modulation, using either direct down-conversion or an IF frequency up to 3.5GHz", said David Richardson, Product Line Director, Wireless. "With the highest IIP3 on the market, as well as very competitive conversion gain, noise figure, and image rejection, this product is a high performing addition to the existing MACOM 42GHz chipset."

The device is packaged in a 6mm lead free laminate package that is RoHS compliant and compatible with reflow temperatures to 260 degrees C, allowing it to be assembled into the application using standard surface mount production lines. (Photo: Business Wire)

The table below outlines typical performance:

Parameter	Units	MADC-010736
Frequency	GHz	40.5-43.5
Conversion Gain	dB	12
Image Rejection	dBc	30
Input IP3	dBm	6
Noise Figure	dB	3.5
LO Power	dBm	0
DC Current (ID1+ID2+ID3)	mA	290

Production quantities and samples of [MADC-010736](#) are available from stock. Final datasheets and additional product information can be obtained from the MACOM website at: [www.macomtech.com](http://www.macomtech.com)

### About MACOM

M/A-COM Technology Solutions Holdings, Inc. ([www.macom.com](http://www.macom.com)) is a leading supplier of high performance analog RF, microwave, and millimeter wave products that enable next-generation Internet and modern battlefield applications. Recognized for its broad catalog portfolio of technologies and products, MACOM serves diverse markets, including high speed optical, satellite, radar, wired & wireless networks, CATV, automotive, industrial, medical, and mobile devices. A pillar of the semiconductor industry, we thrive on more than 60 years of solving our customers' most complex problems, serving as a true partner for applications ranging from RF to Light.

Headquartered in Lowell, Massachusetts, M/A-COM Tech is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. M/A-COM Tech has design centers and sales offices throughout North America, Europe, Asia and Australia.

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Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20140320005473/en/>

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