

# Maven Off Air EMEA-APAC Exo High Power Cellular Repeater



Datasheet version 1.2

## System Features

- Fully digital repeater
- Fanless IP65 rated unit
- Highly efficient, reducing cost and emissions
- Dual-band units
- 5G-ready platform
- Excellent PIM and noise performance
- System auto-commissioning
- MIMO support



Maven Exo is a highly capable all-digital cellular repeater platform supporting multi-operator, multi-band installations for all EMEA bands. The Exo platform embeds up to two cellular bands in the same fanless enclosure.

Installation of the Maven Off Air is quick thanks to few components, and also since the units are a one man lift. The system has auto-commissioning functionality which brings the system up and running quickly. Problem-free

operation is assured with diagnostics such as spectrum analysis and automatic isolation margin measurement.

The secure web interface is intuitive and easy to use, making it useful for any level of technician. The equipment can be accessed from a laptop or a tablet, or via a cellular modem. The standardised supervision interface can be connected to any standard NMS using SNMP v2c or v3. The units provide a dry-contact relay output for alarm status.

## Ordering Information

Item	Description	Part Number
EXO 9/21 AC	Exo off air 9/21 +43 dBm 230 VAC	RAH00001
EXO 21/26 AC	Exo off air 21/26 +43 dBm 230 VAC	RAH00002
EXO 18/26 AC	Exo off air 18/26 +43 dBm 230 VAC	RAH00003
EXO 8/9 AC	Exo off air 8/9 +43 dBm 230 VAC	RAH00004
EXO 7/8 AC	Exo off air 7/8 +43 dBm 230 VAC	RAH00005
EXO 8/18 AC	Exo off air 8/18 +43 dBm 230 VAC	RAH00006
EXO 9/18 AC	Exo off air 9/18 +43 dBm 230 VAC	RAH00007
EXO 18/21 AC	Exo off air 18/21 +43 dBm 230 VAC	RAH00008
EXO 8 AC	Exo off air 8 +43 dBm 230 VAC	RAH00009
EXO 9 AC	Exo off air 9 +43 dBm 230 VAC	RAH00010
EXO 18 AC	Exo off air 18 +43 dBm 230 VAC	RAH00011
EXO 21 AC	Exo off air 21 +43 dBm 230 VAC	RAH00012
EXO 9/26 AC	Exo off air 9/26 +43 dBm 230 VAC	RAH00013

# Exo Off Air Repeater Specification

## General

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Mains power	85 – 264 VAC, -48 VDC optional
Power consumption	280 W max fully loaded
Management	Ethernet 10/100/1000, micro USB, Standard USB accessory connector
Remote Access	Optional cellular modem
Operating temperature	-25 to +55 °C
Ingress protection	IP65
RF interface	Up to 2 bands in one enclosure
Antenna port	4.3-10 or 7/16 optional
System Gain	60 to 90 dB in 0.1 dB steps
Gain flatness	1 dB pp
Delay	Typical 3.3 us

## RF Parameters

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DL Output power	+43 dBm per band		
UL Output power	+30 dBm per band		
RF input range	+17 dBm, non destructive		
Frequencies	<u>Uplink (UL)</u>	<u>Downlink (DL)</u>	<u>Technologies</u>
	703 – 733 MHz	758 – 788 MHz	LTE
	832 – 862 MHz	791 – 821 MHz	LTE
	880 – 915 MHz	925 – 960 MHz	GSM, WCDMA, LTE
	1710 – 1785 MHz	1805 – 1880 MHz	GSM, WCDMA, LTE
	1920 – 1980 MHz	2110 – 2170 MHz	WCDMA, LTE
	2500 – 2570 MHz	2620 – 2690 MHz	LTE

## Mechanical

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Dimensions (height, width, depth)	670 x 383 x 270 mm
Weight	max 25 kg

## Standard & Approvals

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EMC & safety	EMC directive 2004/108/EC Low voltage directive 73/23/EEC RED directive 2014/53/EU
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Note: All parameters are subject to change