

Maven Digital Repeater EMEA-APAC

Exo Repeater for Critical Comms

Data sheet version 3.2

1.

Digital Platform

Sophisticated, user-friendly webGUI,
seamlessly integrated with MavenNMS.

2.

Extensive Feature Suite

Extensive Feature Suite
Built-in spectrum analyzer,
return loss measurements and more.

3.

Sustainable

Passive cooling & lowest power
consumption



Maven Wireless offers cutting-edge, end-to-end digital solutions for global wireless coverage. Our products are future-proof, highly efficient, and cost-effective. We're committed to sustainability and passionate about improving lives by ensuring 100% reliable wireless coverage, anywhere in the world.

Product specification

Exo

General

Mains power	85 – 264 VAC, -72 – -36 VDC optional
Power consumption	200 W max fully loaded
Management	Ethernet 10/100/1000, micro USB, USB accessory connector
Remote access	Optional 4G modem
Operating temperature	-25 to +55 °C
Ingress protection	IP66
RF interface	1 band per enclosure
Antenna port	4.3-10 or 7/16 optional
System Gain	60 to 90 dB in 0.1 dB steps ¹
Gain flatness	1 dB pp
Noise figure	< 3 dB at max gain

¹ Note for TETRA technology, maximum gain is 80 dB.

RF Parameters

RF Input range +17 dBm, non destructive

Band ²	Uplink	Downlink	Operation Bandwidth	Composite Output power DL/UL	Technologies
400	380-470	380-470	5 MHz	40 dBm/40 dBm	TETRA TMO
400	Other frequencies available upon request		5 MHz ³	40 dBm/40 dBm	TETRA TMO
EGSMR	873-880	918-925	7 MHz	43 dBm / 30 dBm	GSM-R
LTE band 72	451-456	461-466	5 MHz	TBD	PS LTE

Available filters / channels

Channel Selective Max 64 various bandwidths

Sub-band selective Max 32 various bandwidths 0-5 MHz / 6.5 for D-BOS

Band Selective 5.5 MHz or 6.5 MHz for D-BOS

Mechanical

Dimensions (height, width, depth) 670 x 383 x 270 mm

Weight Max 23 kg

Standard & Approvals

EMC & safety Low voltage directive 73/23/EEC

EMC directive 2004/108/EC R&TTE directive 1999/5/EC

Note: All parameters are subject to change.

² Various frequency combinations in the same enclosure are available. Contact Maven Wireless for more information.

³ DQPSK Typically 5 MHz BW with 10 MHz duplex spacing, normally DL 10 MHz above UL. For D-BOS 6.5 MHz passband available.