

Maven digital DAS EMEA-APAC

Stratus high power for GSM-R

Datasheet version 2.3

**Outstanding
Performance**

**End to end
Digital platform**

**Always
Future-proof**

**Overall
Cost efficiency**

**More
Sustainable**

Maven Wireless offers new solutions for wireless coverage in all parts of the world. Our products are end to end digital and future-proof, comes with the best performance and cost efficiency you can find. We also have high marks on sustainability and a burning passion for making our customers and end-users life safer, better and easier by securing 100% wireless coverage.

**Stratus remote unit
Orion head end unit**



Orion specification



General

Mains power	85 – 264 VAC, redundant, Hot swappable -72 – -36 VDC, redundant, Hot swappable
Power consumption	100 W fully loaded*
Management	Ethernet 10/100/1000 mUSB Standard micro USB accessory connector 4 external alarm inputs & 1 external alarm output optional Optional built in 4G modem
Operating temperature	+5 to +45 °C
RF input	Up to 8 hot swappable band modules
System Gain	15 to 45dB in 0.1dB steps
Gain Flatness	1 dB pp

Digital Interface

CPRI ports	4 x QSFP+ connectors with option for SFP+ adapter
Spectrum bandwidth	Up to 1200 MHz RF spectrum per QSFP+ connector, either as a single WDM link or four 300MHz links
Single mode fibre	1310 nm band, up to 40 km distance
Multi mode fibre	850 nm band, up to 300 m distance

RF Module

Connections	2 RF interfaces, each with a duplex and simplex QMA connection.	
RF input range	0 to +30 dBm composite per RF module	

Frequencies

	Uplink	Downlink
	873 – 880 MHz	918 - 925 MHz

Mechanical

Dimensions (height, width, depth)	130 x 436 x 309 mm in standard 19" rack format
Weight	< 8 kg

*Thermal dissipation +- 15 %

Stratus specification



General

Mains power	85 – 264 VAC, -72 – -36 VDC optional
Power consumption	150 W (single band)**
Management	Ethernet 10/100/1000 , micro USB, Standard USB accessory connector
Operating temperature	-25 to +55 °C
Ingress protection	IP66
Antenna port	4.3-10 or 7/16 optional
Digital Interface	3 x QSFP+ and 4 x SFP+
Number of bands	up to 4 bands in one enclosure

RF parameters

Output power	+43 dBm per band @ 8 dB Peak-to-average ratio
Noise figure	< 3 dB at max gain
Return loss	> 14 dB
System impedance	50 Ω
Maximum input power	+17 dBm, non destructive ***

Band	Uplink	Downlink	Operation bandwidth	Composite output power	Technologies
900-R	873 – 880	918 - 925	7 MHz	+ 43 dBm	GSM-R, LTE

Mechanical

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

Standards & approvals

EMC Et safety	Low voltage directive 73/23/EEC
EMC directive 2004/108/EC	RED directive 2014/53/EU

**) Thermal dissipation +- 15 %

***) noise figure increases slowly and gradually after -37 dBm

Various frequency combinations in the same enclosure are available. Contact Maven Wireless for more information. All parameters are subject to change.