

Maven digital DAS EMEA-APAC

Stratus Quad/Pentaband High Power

Data sheet version 2.5

1.

Digital Platform

CPRI end-to-end.



2.

Future-proof

Add functionality (coverage, technologies such as 5G, and more over time).



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

Orion Head End Unit



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 micro USB Standard USB accessory connector 4 external alarm inputs & 1 external alarm output option 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

RF Module

Connections	4 RF interfaces, each with a duplex and simplex QMA connection.
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RF input range 0 to +30 dBm composite per RF module

Frequencies	Uplink	Downlink
	703 – 748 MHz	758 – 803 MHz
	824 – 844 MHz	869 – 889 MHz
	832 – 862 MHz	791 – 821 MHz
	880 – 915 MHz	925 - 960 MHz
	1710 – 1785 MHz	1805 – 1880 MHz
	1920 – 1980 MHz	2110 – 2170 MHz
	2500 – 2570 MHz	2620 – 2690
	2300 – 2400 MHz (TDD)	
	2500 – 2700 MHz (TDD)	
	3400 – 3800 MHz (TDD)	

Mechanical

Dimensions (height, width, depth) 130 x 436 x 309 mm in standard 19” rack format

Weight < 8kg

Product specification

Stratus Remote Unit



General

Mains power	85 – 264 VAC, -72 – -36 VDC optional
Power consumption	400 W fully loaded
Management	Ethernet 10/100/1000 , micro USB, Standard USB accessory connector
Operating temperature	-25 to +55 °C ¹
Ingress protection	IP66
Antenna port	4.3-10 or 7/16 optional, 1 combined antenna port as standard, max 4
Digital Interface	3 x QSFP+ and 4 x SFP+
Number of bands	Up to 5 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 ²

¹ Max 50 °C for quad band with full power in all bands

² Noise figure increases slowly and gradually after -37 dBm

Band ³	Uplink	Downlink	Operation Bandwidth	Composite Output power ⁴	Technologies
700	703 – 748	758 – 803	45 MHz	+ 43 dBm	LTE, 5G NR
850	824 - 844	869 – 889	20 MHz	+ 43 dBm	CELL/GSM ³ , WCDMA, LTE
800	832 – 862	791 – 821	30 MHz	+ 43 dBm	LTE, 5G NR
900	880 – 915	925 - 960	35 MHz	+ 43 dBm	GSM ³ , WCDMA, LTE, 5G NR
1800	1710 – 1785	1805 – 1880	75 MHz	+ 43 dBm	GSM ³ , WCDMA, LTE, 5G NR
2100	1920 – 1980	2110 – 2170	60 MHz	+ 43 dBm	WCDMA, LTE, 5G N
2300 TDD	2300 – 2400	2300 – 2400	100 MHz	+ 43 dBm	LTE, 5G NR
2600 TDD	2500 – 2700	2500 – 2700	100 MHz	+ 43 dBm	LTE, 5G NR
2600	2500 – 2570	2620 – 2690	70 MHz	+ 43 dBm	LTE, 5G NR
C-Band	3400-3800	3400-3800	100 MHz	+ 43 dBm	LTE, 5G NR

Mechanical

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

Weight Max 25 kg

Standards & approvals

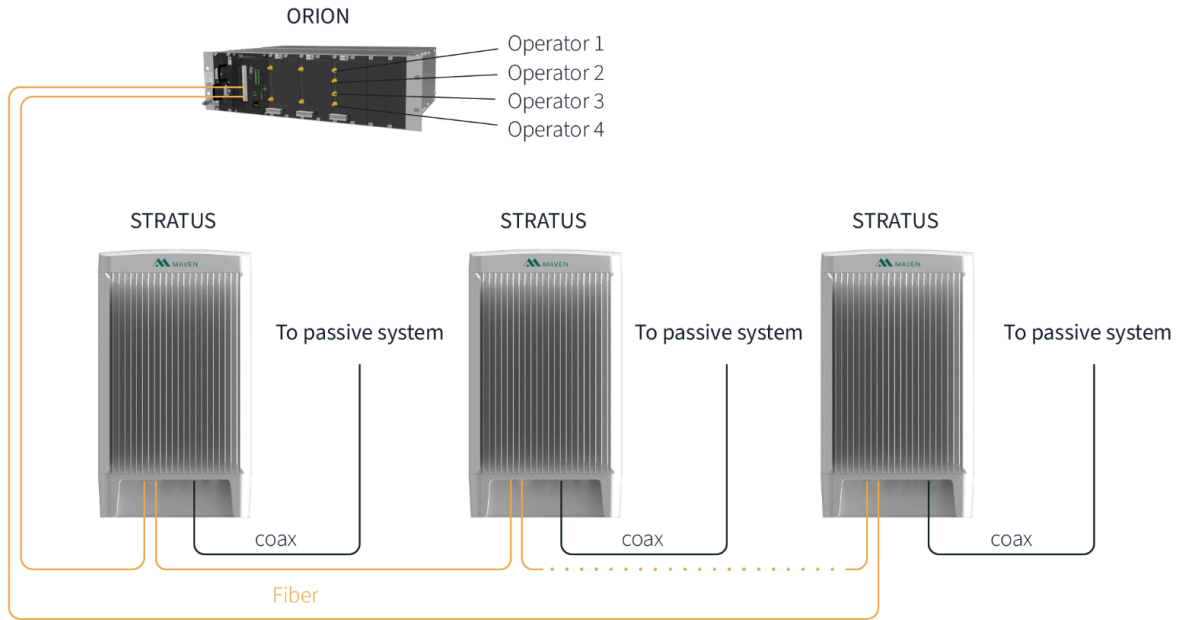
EMC & Safety Low voltage directive 73/23/EEC

³ Various frequency combinations in the same enclosure are available. Contact Maven Wireless for more information.

⁴ Maximum +37 dBm for GSM

**EMC directive
2004/108/EC**

RED directive 2014/53/EU



Note: All parameters are subject to change.