

# Maven digital DAS EMEA-APAC

## Stratus quad/pentaband high power

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 micro USB Standard 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	4 RF interfaces, each with a duplex and simplex QMA connection.
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	< 8 kg

\*Thermal dissipation

## Stratus specification



### 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 †
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 *

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

### Mechanical

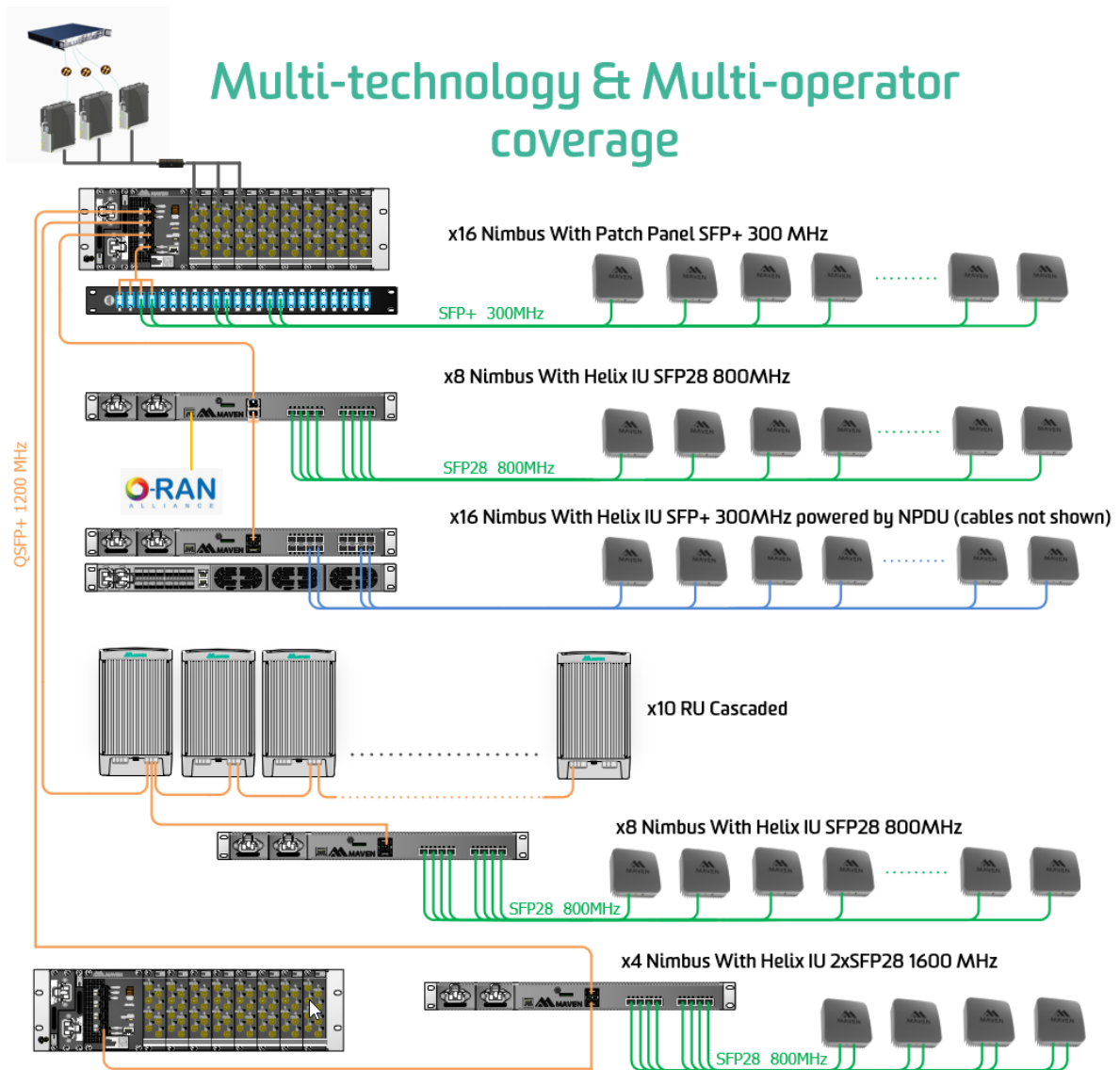
Dimensions (height, width, depth)	Typical: 670 x 383 x 270 mm
Weight	Max 25 kg

### Standards & approvals

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

\*\*Thermal dissipation

# Multi-technology & Multi-operator coverage



- †) max 50 °C for quad band with full power in all bands
- \*) noise figure increases slowly and gradually after -37 dBm
- \*\*\*) maximum +37 dBm for GSM

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