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Optus-10

Our tenth successful launch

After our tenth Optus satellite was launched in French Guiana, South America, in 2014, it brought more resilience to delivering voice and data services across Australia and New Zealand. Optus-10 sits at 164°E and operates in the Ku-band.



The successful launch of the Optus-10 satellite took place in French Guinea, in September 2014. As the tenth satellite to be successfully launched, Optus-10 further extends our satellite fleet. Operating in the Ku-Band, the Optus-10 satellite brings

increased fleet resilience and additional capacity to deliver voice, data and video services across mainland Australia, New Zealand and Australia's surrounding islands and territories.

Technical Information (/content/dam/optus/documents/about-us/our-network/Optus_10_Satellite_Payload_Information.pdf)

Satellite

Satellite Type:	SSL LS1300 LL
Launch Mass:	3270 kg
Mass in Orbit:	1677 kg
Stabilisation:	3 Axis Momentum Stabilised
Dimensions:	24.8 metres across extended solar panels

Transponders

Operating Bands:	Ku-Band
Uplink Frequencies:	Ku FSS: 14.0 - 14.5 GHz Ku BSS: 17.3 - 17.8 GHz
Downlink Frequencies:	Ku FSS: 12.25 - 12.75 GHz Ku BSS: 11.7 - 12.2 GHz
Number of Transponders:	24 Ku-Band @ 133 W
Bandwidth:	36 MHz
Polarisation:	Linear

Performance

EIRP:	Australia 44 to 51 dBW Australia/New Zealand combined 44 to 50 dBW (see the Technical Information document for detailed contour maps)
G/T:	Australia -2 to 7 dB/K Australia/New Zealand combined -1 to 6 dB/K (see the Technical Information document for detailed contour maps)

SFD:	-65 to -101 dBW/m ² (at +2dB/K G/T contour)
Solar Array Power:	7700 watts (at end of life)
Telemetry:	Ku-Band
Command:	Ku-Band