



Helios Aircraft Radio Frequencies

Location / Transmitter	Frequency	Band Width	Trans. Power	Gain	Data Rate	Antenna Type	Com Type	Station Class
AIRCRAFT								
Telemetry Downlink A (3ch)	1740 MHz	380 KHz	5 Watts	2 dB	9.6 Kbps (3)*	Omni Antenna	Data	Aircraft
Telemetry Downlink B	1812 MHz	380 KHz	5 Watts	2 dB	9.6 Kbps	Omni Antenna	Data	Aircraft
Video Downlink	1765 MHz	2 MHz	10 Watts	2 dB	6 MHz	Omni Antenna	Video	Aircraft
Flight Termination System	RC-421 MHz	N/A	N/A	N/A	N/A	FTS Blade Antenna	Beacon	Aircraft
C-Band Beacon Transmitter	TX-5586 MHz RC-5658 MHz	2 MHz	5 Watts	2 dB	NA	Omni Antenna	Beacon	Aircraft
ATC Mode 3C Transponder	TX-1090 MHz RC-1030 MHz	3 MHz	200 Watts	2 dB	NA	Omni Antenna	Beacon	Aircraft
MOBILE GROUND CONTROL STATION (Van)								
Telemetry Uplink A (3)	1429 MHz	380 KHz	5 Watts	2 dB	9.6 Kbps (3)*	Omni Antenna	Data	Mobile
Telemetry Uplink B	1431 MHz	380 KHz	5 Watts	2 dB	9.6 Kbps	Omni Antenna	Data	Mobile
Crew Voice Communication	149.95 MHz	10 KHz	5 Watts	2 dB	Voice	Omni Antenna	Voice	Mobile
STATIONARY GROUND CONTROL STATION (BGT)								
Telemetry Uplink A (3)	1429 MHz	380 KHz	10 Watts	17 dB	9.6 Kbps (3)*	Directional Antenna	Data	Fixed
Telemetry Uplink B	1431 MHz	380 KHz	10 Watts	17 dB	9.6 Kbps	Directional Antenna	Data	Fixed
Crew Voice Communication	149.95 MHz	10 KHz	5 Watts	2 dB	Voice	Omni Antenna	Voice	Fixed



to use single 19.2kbps channel plus one 9.6kbps channel