

SPIRE Telemetry Data Rate
POF1

DCU Science	Nominal	
Number of data channels	270	
Number of engineering channels	30	
Bits per channel	16	bits
Frame size	4800	bits
Frames per packet	1	
Packet size	4976	bits
Sampling rate	16	frames/sec
Packets per sec	16	

MCU Science	Nominal	
Number of data channels	0	
Number of engineering channels	10	
Bits per channel	16	bits
Frame size	160	bits
Frames per packet	16	
Packet size	2736	bits
Sampling rate	64	frames/sec
Packets per sec	4	

SCU Science	Nominal	
Number of data channels	0	
Number of engineering channels	20	
Bits per channel	16	bits
Frame size	320	bits
Frames per packet	4	
Packet size	1456	bits
Sampling rate	4	frames/sec
Packets per sec	1	

DPU Science	Nominal	
Number of data channels	0	
Number of engineering channels	16	
Bits per channel	16	bits
Frame size	256	bits
Frames per packet	4	
Packet size	1200	bits
Sampling rate	4	frames/sec
Packets per sec	1	

Housekeeping	Nominal	
Number of DCU data channels	32	
Number of MCU data channels	32	
Number of SCU data channels	64	
Number of DPU data channels	122	
Bits per channel	16	bits
Frame size	4000	bits
Frames per packet	1	
Packet size	4176	bits
Sampling rate	0.5	frames/sec
Packets per sec	0.5	

Total packet rate	22.5	
Total data rate	95304	

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50
100000
8144
1760