

Part	Frame Header				Telemetry Packet (Header)		
	0	1	2	3	4	5	6
Word							
bit	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0
Value	0101010101010101	0101010101010101	0101010101010101	0101010101010101	1101010101010101	1101010101010101	1101010101010101
explanation	(Spare)	Data ID1 0x03 (HK/ACS-1)	Frame Sequence Counter	(Spare)	Data ID2 0x02 (OBC/ACS-1)	Seq. FLG	Telemetry Packet Length (67bytes : fixed value)

Part	Telemetry Packet (Data)															
	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Word																
bit	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0
Value	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101
explanation	30012 Satellite Time (MSB)	30012 Satellite Time	30012 Satellite Time	30012 Satellite Time (LSB)	40404 Acfs Hour	40405 Acfs Minute	40406 Acfs Second (MSB)	40406 Acfs Second	40406 Acfs Second	40406 Acfs Second (LSB)	40101 Estimated Attitude Quaternion q1 (MSB)	40101 Estimated Attitude Quaternion q1	40101 Estimated Attitude Quaternion q1	40101 Estimated Attitude Quaternion q1 (LSB)	40102 Estimated Attitude Quaternion q2 (MSB)	40102 Estimated Attitude Quaternion q2

Part	Telemetry Packet (Data)															
	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Word																
bit	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0
Value	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101
explanation	40102 Estimated Attitude Quaternion q2	40102 Estimated Attitude Quaternion q2 (LSB)	40103 Estimated Attitude Quaternion q3 (MSB)	40103 Estimated Attitude Quaternion q3	40103 Estimated Attitude Quaternion q3	40103 Estimated Attitude Quaternion q3 (LSB)	40104 Estimated Attitude Quaternion q4 (MSB)	40104 Estimated Attitude Quaternion q4	40104 Estimated Attitude Quaternion q4	40104 Estimated Attitude Quaternion q4 (LSB)	40121 Sun Direction Vector X (MSB)	40121 Sun Direction Vector X	40121 Sun Direction Vector X	40121 Sun Direction Vector X (LSB)	40122 Sun Direction Vector Y (MSB)	40122 Sun Direction Vector Y

Part	Telemetry Packet (Data)															
	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Word																
bit	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0
Value	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101
explanation	40122 Sun Direction Vector Y	40122 Sun Direction Vector Y (LSB)	40123 Sun Direction Vector Z (MSB)	40123 Sun Direction Vector Z	40123 Sun Direction Vector Z	40123 Sun Direction Vector Z (LSB)	40141 Estimated Rate X (MSB)	40141 Estimated Rate X	40141 Estimated Rate X	40141 Estimated Rate X (LSB)	40142 Estimated Rate Y (MSB)	40142 Estimated Rate Y	40142 Estimated Rate Y	40142 Estimated Rate Y (LSB)	40143 Estimated Rate Z (MSB)	40143 Estimated Rate Z

Part	Telemetry Packet (Data)															
	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Word																
bit	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0	7:6:5:4:3:2:1:0
Value	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101	0101010101010101
explanation	40143 Estimated Rate Z	40143 Estimated Rate Z (LSB)	40414 Attitude Covariance X (MSB)	40414 Attitude Covariance X	40414 Attitude Covariance X	40414 Attitude Covariance X (LSB)	40415 Attitude Covariance Y (MSB)	40415 Attitude Covariance Y	40415 Attitude Covariance Y	40415 Attitude Covariance Y (LSB)	40416 Attitude Covariance Z (MSB)	40416 Attitude Covariance Z	40416 Attitude Covariance Z	40416 Attitude Covariance Z (LSB)	Received EVA/DIS CMD counter Covariance (MSB) Covariance (LSB) Received CRK receive counter Error correct status	CMD counter