種別	EPS								OBC							
Word	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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
名称	bat_v	bat_a	bat_temp1	bat_temp2	total_sap_v	total_sap_a	5v_a	3.3v_a	obc_pwr_sts / cmd_seq_cnt	sat_time				obc_unix_time		

種別	OBC															
Word	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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
名称	obc_unix_time	rtc_time			gps_time					cmd_err_cnt	cmd_sliding_window	rtc_err_sts	com_err_sts	mcom_err_sts	gps_err_sts	sdr_err_sts

種別	OBC								COM							
Word	sap_a	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
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
名称	sd_err_sts	obc_err_sts	cam_err_sts	obc_opr_time				rf_relay_sts / (space)	com_pwr_sts / com_sts / com_pkm / com_fmd	com_tx_frequency	com_data_rate	com_fsk_deviation	com_morse_tx_pwr	com_morse_interval_time	com_morse_speed / com_ant_trig_thresold_Adnum	com_ant_trig_thresold_Adval

種別	COM										MCOM					
Word	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
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
名称	com_ant_trig_time	com_ant_trig_span	com_rst_trig_span	com_rst_trig_alarm	com_adport2_v	com_adport3_v	com_adport4_v	com_adport5_v	com_adport6_v	com_adport7_v	(space)	mcom_pwr_sts / mcom_sts / mcom_pkm / mcom_fmd	mcom_tx_frequency	mcom_data_rate	mcom_fsk_deviation	mcom_morse_tx_pwr

種別	MCOM													GPS		
Word	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
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
名称	mcom_morse_interval_time	mcom_morse_speed / mcom_ant_trig_thresold_Adnum	mcom_ant_trig_thresold_Adval	mcom_ant_trig_time	mcom_ant_trig_span	mcom_rst_trig_span	mcom_rst_trig_alarm	mcom_adport2_v	mcom_adport3_v	mcom_adport4_v	mcom_adport5_v	mcom_adport6_v	mcom_adport7_v	gps_pwr_sts	gps_week	(space) / (space) / (space) / gps_tow

種別	GPS															
Word	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
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

名称	gps_tow	position_x	position_y	position_z	velocity_x

種別	GPS											SDR			
Word	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
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
名称	velocity_x	velocity_y	velocity_z	gps_pdop	sdr_pwr_sts	sdr_obs_sts	sdr_peak_hold_sts	(space)	(space)	(space)	(space)	(space)	sdr_obs_start_freq			

種別	SDR															
Word	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
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
名称	sdr_obs_start_freq	sdr_obs_end_freq				sdr_obs_step				(space) ~~sdr_obs_interval~~		sdr_obs_gain				sdr_ppm

種別	SDR			SD		XDET			CAM							
Word	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
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
名称	sdr_ppm	(space)		sd_pwr_sts sd_obs_sts sd_init_sts (space) (space) (space) (space) (space)	sd_seu_cnt	xdet_xray_intensity		xdet_pwr_sts xdet_obs_sts cam_pwr_sts cam_mode (space)	cam_replay_file	cam_iso		cam_shutter_speed				cam_pic_resolution

種別	CAM					SPARE									
Word	144	145	146	147	148	149	150	151	152	153	154	155	156	157	
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	
名称	cam_white_balance		cam_brightness	cam_contrast	cam_color_saturation	tlm_log_file_number			tlm_data_counter				CRC-16-CCITT		