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Status (0x82,0x10)

Description	Device-specific filter status indicators.																																					
Notes																																						
Parameter Name	Data Type	Description																																				
Field Length	u8	8																																				
Descriptor	u8	0x10																																				
Filter State	u16 enum	Device-specific filter state. Please consult the user manual for definition.																																				
		<table><tr><th>Name</th><th>Value</th><th>Description</th></tr><tr><td>GX5_STARTUP</td><td>0</td><td></td></tr><tr><td>GX5_INIT</td><td>1</td><td></td></tr><tr><td>GX5_RUN_SOLUTION_VALID</td><td>2</td><td></td></tr><tr><td>GX5_RUN_SOLUTION_ERROR</td><td>3</td><td></td></tr><tr><td>INIT</td><td>1</td><td></td></tr><tr><td>VERT_GYRO</td><td>2</td><td></td></tr><tr><td>AHRS</td><td>3</td><td></td></tr><tr><td>FULL_NAV</td><td>4</td><td></td></tr></table>	Name	Value	Description	GX5_STARTUP	0		GX5_INIT	1		GX5_RUN_SOLUTION_VALID	2		GX5_RUN_SOLUTION_ERROR	3		INIT	1		VERT_GYRO	2		AHRS	3		FULL_NAV	4										
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Dynamics Mode	u16 enum	Device-specific dynamics mode. Please consult the user manual for definition.																																				
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Status Flags	u16 bitfield	Device-specific status flags. Please consult the user manual for definition.																																				
		<table><tr><th>Name</th><th>Bit(s)</th><th>Description</th></tr><tr><td>gx5_init_no_attitude</td><td>12</td><td></td></tr><tr><td>gx5_init_no_position_velocity</td><td>13</td><td></td></tr><tr><td>gx5_run_imu_unavailable</td><td>0</td><td></td></tr><tr><td>gx5_run_gps_unavailable</td><td>1</td><td></td></tr><tr><td>gx5_run_matrix_singularity</td><td>3</td><td></td></tr><tr><td>gx5_run_position_covariance_warning</td><td>4</td><td></td></tr><tr><td>gx5_run_velocity_covariance_warning</td><td>5</td><td></td></tr><tr><td>gx5_run_attitude_covariance_warning</td><td>6</td><td></td></tr><tr><td>gx5_run_nan_in_solution_warning</td><td>7</td><td></td></tr><tr><td>gx5_run_gyro_bias_est_high_warning</td><td>8</td><td></td></tr><tr><td>gx5_run_accel_bias_est_high_warning</td><td>9</td><td></td></tr></table>	Name	Bit(s)	Description	gx5_init_no_attitude	12		gx5_init_no_position_velocity	13		gx5_run_imu_unavailable	0		gx5_run_gps_unavailable	1		gx5_run_matrix_singularity	3		gx5_run_position_covariance_warning	4		gx5_run_velocity_covariance_warning	5		gx5_run_attitude_covariance_warning	6		gx5_run_nan_in_solution_warning	7		gx5_run_gyro_bias_est_high_warning	8		gx5_run_accel_bias_est_high_warning	9	
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		gx5_run_gyro_scale_factor_est_high_warning	10	
		gx5_run_accel_scale_factor_est_high_warning	11	
		gx5_run_mag_bias_est_high_warning	12	
		gx5_run_ant_offset_correction_est_high_warning	13	
		gx5_run_mag_hard_iron_est_high_warning	14	
		gx5_run_mag_soft_iron_est_high_warning	15	
		gq7_filter_condition	0-1	
		gq7_roll_pitch_warning	2	
		gq7_heading_warning	3	
		gq7_position_warning	4	
		gq7_velocity_warning	5	
		gq7_imu_bias_warning	6	
		gq7_gnss_clk_warning	7	
		gq7_antenna_lever_arm_warning	8	
		gq7_mounting_transform_warning	9	
		gq7_time_sync_warning	10	No time synchronization pulse detected
		gq7_solution_error	12-15	Filter computation warning flags. If any bits 12-15 are set, and all filter outputs will be invalid.