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Document No.: XXXXXXXX

Revision: TBD

Date: TBD

Telemetry Handbook

For the COSMOS Demo Project



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Telemetry Packets

BLINK SOH

State of health of the blink application.

Item Name	Description	Bit Offset	Bit Size	Data Type	Units Format
RECEIVED_TIMESECONDS	COSMOS Received Time (UTC, Floating point, Unix epoch) Read Conversion: ReceivedTimeSecondsConversion	0	0	DERIVED	%0.6f
RECEIVED_TIMEFORMATTED	COSMOS Received Time (Local time zone, Formatted string) Read Conversion: ReceivedTimeFormattedConversion	0	0	DERIVED	
RECEIVED_COUNT	COSMOS packet received count Read Conversion: ReceivedCountConversion	0	0	DERIVED	
LENGTH	Packet size so COSMOS can read the serial port.	0	8	UINT	
PKTID	Packet ID so COSMOS can identify the packet and store it. Id Value: 1	8	8	UINT	
DELAY	Current delay value (ms) between LED blinks. Limits [DEFAULT]: RL/0.0 YL/50.0 YH/150.0 RH/200.0 Limits Response: DelayLimitsResponse	16	8	UINT	
CMDACCEPT	The number of commands that were actually accepted.	24	8	UINT	
CMDRCVD	The number of commands received.	32	8	UINT	

SYSTEM META

System Meta Data Telemetry Packet

Item Name	Description	Bit Offset	Bit Size	Data Type	Units Format
RECEIVED_TIMESECONDS	COSMOS Received Time (UTC, Floating point, Unix epoch) Read Conversion: ReceivedTimeSecondsConversion	0	0	DERIVED	%0.6f
RECEIVED_TIMEFORMATTED	COSMOS Received Time (Local time zone, Formatted string) Read Conversion: ReceivedTimeFormattedConversion	0	0	DERIVED	
RECEIVED_COUNT	COSMOS packet received count Read Conversion: ReceivedCountConversion	0	0	DERIVED	
PKTID	Packet Id Id Value: 1	0	8	UINT	
CONFIG	Configuration Name	8	256	STRING	
COSMOS_VERSION	COSMOS Version	264	240	STRING	
USER_VERSION	User Project Version	504	240	STRING	
RUBY_VERSION	Ruby Version	744	240	STRING	