

Data format 1.0-rc1 as 32-bit words

Word	X	Y	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
1	1	0	Reserved (8)								SlotNo				CrateNo				FiberNo				Version = 1 [2]				K28.5 [1]								WIB Header
2	1	1	WIB Errors (details <i>t.b.d.</i>)																Reserved (16)																
3	1	1	Timestamp [31:0]																																
4	1	1	Z	Timestamp [62:48] or WIB counter [3]																Timestamp [47:32]															
5	1	1	Checksum_B[7:0]								Checksum_A[7:0]								Reserved								S2_Err ^c				S1_Err ^c				COLDATA 1 (28 Words)
	1	1	...																																
	1	1																																	
33	1	1	Checksum_B[7:0]								Checksum_A[7:0]								Reserved								S2_Err ^c				S1_Err ^c				COLDATA 2 (28 Words)
	1	1	...																																
	1	1																																	
61	1	1	Checksum_B[7:0]								Checksum_A[7:0]								Reserved								S2_Err ^c				S1_Err ^c				COLDATA 3 (28 Words) [4]
	1	1	...																																
	1	1																																	
89	1	1	Checksum_B[7:0]								Checksum_A[7:0]								Reserved								S2_Err ^c				S1_Err ^c				COLDATA 4 (28 Words) [4]
	1	1	...																																
	1	1																																	
117	0	1	CRC-32																																WIB Trailer Idle
118	0	0	IDLE (filled by FELIX firmware)																																
119	0	0	IDLE (filled by FELIX firmware)																																
120	0	0	IDLE (filled by FELIX firmware)																																
			31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	

NOTES:

1. First byte in stream is K28.5 for RCE, undefined for FELIX
2. Format version currently = 1. This specifies a header size of 4 words and a fragment size of 117
3. Bits [30:16] of word 3 may be either the upper 8 bits of the timestamp or a WIB debug counter
Bit 31 ('Z') of word 3 = '0' for full timestamp mode (63 bit timestamp) or '1' for WIB counter mode
4. Second two COLDATA blocks omitted in RCE format when running at 5 Gbps