

TSF Outputs

with Half Speed GTH

2018.7.3 updated
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TSF to Tracker/N.N

170bits/lane

lane 1

lane 0

c.c									TSHit00								0x99
TShit00												TSHit01					0x88
TSHit01																0x77	
TSHit02																0x66	
TSHit02				TShit03												0x55	
TSHit03								TSHit04								0x44	
TSHit04												TSHit05					0x33
TShit05															TSHit06	0x22	
TSHit06																0x11	
TSHit06				TSHit07												0x00	
TSHit07								TSHit08								0x99	
TSHit08												TSHit09					0x88
TSHit09															TSHit10	0x77	
TSHit10																0x66	
TSHit10			TSHit11													0x55	
TSHit11						TSHit12										0x44	
TSHit12										TSHit13							0x33
TSHit13														TSHit14			0x22
TSHit14																0x11	
TSHit14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0x00

TSF to Tracker/N.N

- c.c : 9 bits clock counter
- TSHits : $8(\text{TSID}) + 9(\text{priority time}) + 2(\text{L/R}) + 2(\text{priority hit position})$

L/R

00 - no hit

01 - right

10 - left

11 - unknown

priority hit position

00 - no hit

01 - right cell of 2nd priority layer

10 - left cell of 2nd priority layer

11 - 1st priority layer

TSF to ETF

N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0x99	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0x88	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0x77	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C.C						0x66	
C.C			# of Hits									fTime00				0x55		
fTime00				fTime01								fTime02				0x44		
fTime02					fTime03								fTime04				0x33	
fTime04						fTime05								fTime06			0x22	
fTime06							fTime07									fTime08	0x11	
fTime08									fTime09									0x00

TSF to ETF

- cc : 9 bits clock counter
- # of Hits : 9 bit integer
- fTime : fastest time info. 9 bits/hit