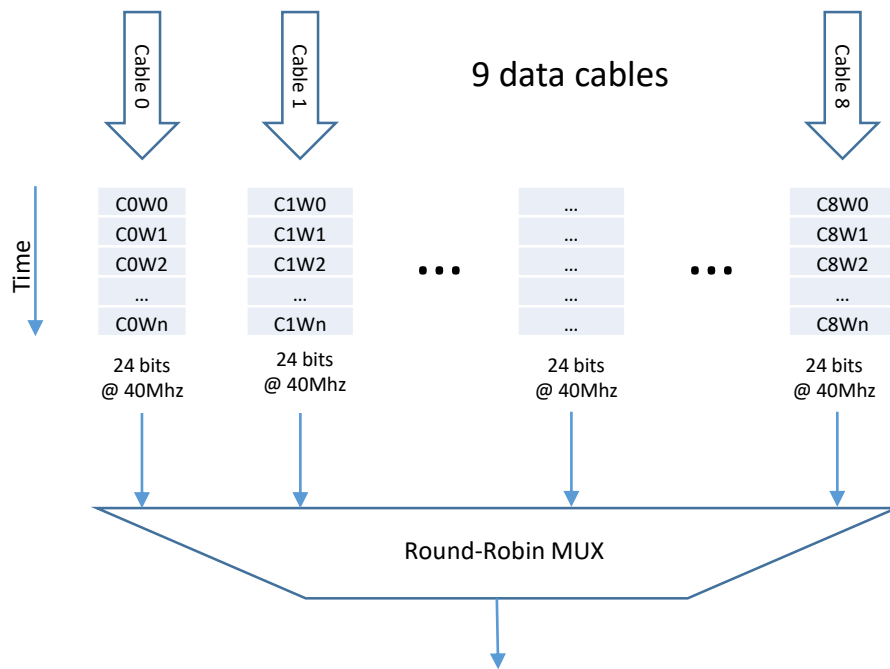
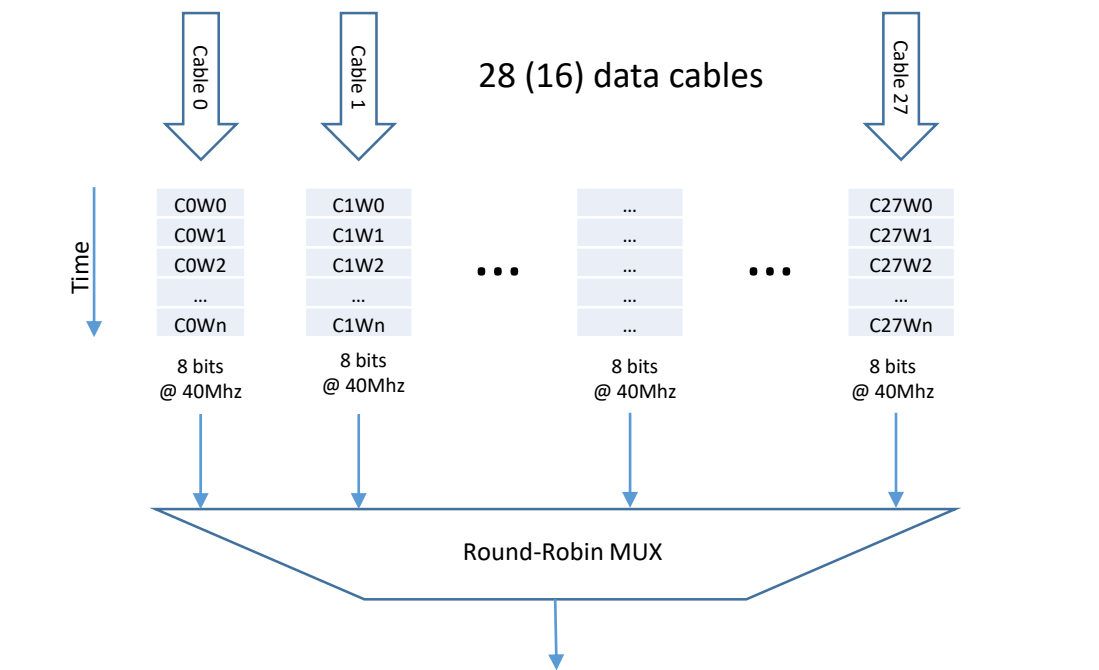




DataValid	72	64	56	48	40	32	24	16	8	0
0	SOP Parameters									SOP (4bit)
1	EqID	0x0	FID	ORBIT(32bit)			BCID(12bit)		TrgType	
1	Status									
1	C0_Id	C0W2			C0W1			C0W0		
1	C1_Id	C1W2			C1W1			C1W0		
1	C2_Id	C2W2			C2W1			C2W0		
1	...	...			...			...		
1	C8_Id	C8W2			C8W1			C8W0		
1	C0_Id	C0W5			C0W4			C0W3		
1	C1_Id	C1W5			C1W4			C1W3		
1	C2_Id	C2W5			C2W4			C2W3		
1	...	...			...			...		
1	C8_Id	C8W5			C8W4			C8W3		
1	...	...			...			...		
1	...	...			...			...		
1	C8_Id	C8W(n)			C8W(n-1)			C8W(n-2)		
0	0x0 (60bits) PACKET_LENGTH (16bits)									EOP (4bit)
0	0x0									IDLE (4bit)

C<n>W<m>: Cable <n>, Word <m>
Cx_Id: FIFO identifier (0-27, 5bit)
SOP: CRU Start-of-Packet
EOP: CRU End-of-Packet
FID: Frame ID (0,...,3 relative to Heartbeat, 2bit)
BCID: Bunch Crossing ID (12bit)
EqID: Equipment ID (0-191, 8bit)

Inner Barrel Data Format



DataValid	72	64	56	48	40	32	24	16	8	0
0	SOP Parameters									SOP (4bit)
1	EqID	0x0	FID	ORBIT(32bit)			BCID(12bit)		TrgType	
1	Status									
1	C0_Id	C0W8							C0W1	C0W0
1	C1_Id	C1W8							C1W1	C1W0
1	C2_Id	C2W8							C2W1	C2W0
1	...	...							...	...
1	C27_Id	C27W8							C27W1	C27W0
1	C0_Id	C0W17							C0W10	C0W9
1	C1_Id	C1W17							C1W10	C1W9
1	C2_Id	C2W17							C2W10	C2W9
1	...	...							...	...
1	C27_Id	C27W17							C27W10	C27W9
1	...	...							...	...
1	...	...							...	...
1	C27_Id	C27W(n)							C27W(n-7)	C27W(n-8)
0	0x0 (60bits) PACKET_LENGTH (16bits)									EOP (4bit)
0	0x0									IDLE (4bit)

C<n>W<m>:

Cable <n>, Word <m>

Cx_Id:

FIFO identifier (0-27, 5bit)

SOP:

CRU Start-of-Packet

EOP:

CRU End-of-Packet

FID:

Frame ID (0,...,3 relative to Heartbeat, 2bit)

BCID:

Bunch Crossing ID (12bit)

EqID:

Equipment ID (0-191, 8bit)

Outer Barrel Data Format