
**Copper “Cu” Sub-Task Force
Opening Report
Quebec, Quebec CA - May 2009**

**Cu Sub-Task Force Chair
Chris Di Minico**

**Editor(s) – Ryan Latchman
Arthur Marris**

Cu Sub-Task Force

- **Cu Sub-Task Force Chair and Editor for 40GBASE-CR4 and 100GBASE-CR10, clause 85**
 - **Chris DiMinico**
- **Editor, 40 Gb/s (XLAUI) and 100 Gb/s (CAUI) interfaces, Annex 83A, 83B**
 - **Ryan Latchman**
- **Editor, Clauses 69, 73, 74, 84, Annexes 69A, 69B**
 - **Arthur Marris**

Copper Sub-Task Force Schedule

	Mon	Tues	Wed	Thurs				
8:30	Task Force	Logic	Copper	Optics	Logic	Copper	Optics	Task Force: Closing Reports, Motions, & Closing Business
9:00								
9:30								
10:00								
10:30								
11:00								
11:30								
12:00	Lunch			Lunch			Lunch	
12:30	Lunch			Lunch			Lunch	
13:00	Task Force	Logic	Copper	Optics	Logic	Copper	Optics	
13:30								
14:00								
14:30								
15:00								
15:30								
16:00								
16:30								
17:00								
17:30								
18:00	Dinner			Dinner				
18:30	Dinner			Dinner				
19:00	Dinner			Dinner				
19:30	Task Force	Logic	Copper	Optics	Logic	Copper	Optics	
20:00								
20:30								

Agenda Tuesday and Wednesday

- **Schedule (start Tuesday morning 8:30 AM to completion)**
 1. **Clause 85, 40GBASE-CR4 and 100GBASE-CR10**
 2. **Backplane Clauses 69, 73, 74, 84, Annexes 69A, 69B**
 3. **Annex 83A, 83B 40 Gb/s (XLAUI) and 100 Gb/s (CAUI) interfaces**
- **Priority**
 - **Review T/TRs for each clause**
- **Comment status**

Clause/Annexes	Editor	TR	T	ER	E	Total
85	Chris DiMinico	43	53	48	50	138
69,69A,69B,73,84	Aurthur Marris	24	15	18	7	64
83A,84A	Ryan Latchman	33	53	17	14	117
						319

Key items clause 85

Test points and transfer functions; normative/informative

- Normative: Cable assembly – [TP1 and TP4], Transmitter [TP2], Receiver [TP3]
- Informative: Channel – [TP0 to TP5], Tx and Rx PCB boards [TP0 to TP1] and [TP4 to TP5]
- TP2 testing – (1) TWDP, (2) Transfer Tx parameters to TP2, extract IL
- TP3 testing [interference tolerance test]

Test Fixtures

- TP2, TP3 – Transmit and receiver
- TP2 and TP4 – cable assembly

CR10 connector

- contacts lane assignments

Frequency range (min): cable assembly and channel

Cable Assembly

- testing and specification refinements

Channel

- specification refinements - upper bound for crosstalk of short channels

Tx and Rx PCB

- minimum and maximum PCB loss and testing

Key items Annexes 83A, 83B

Annex 83A:

- Proposed updates with respect to values for:
 - compliance point loss budget
 - de-emphasis range
 - FR4 receiver stress amount

Annex 83B:

- Proposed updates with respect to values for
 - Compliance point loss budget
 - FR4 receiver stress amount
 - De-emphasis range
 - Crosstalk specification