Brocade X7 Director Architecture: Trunk Groups
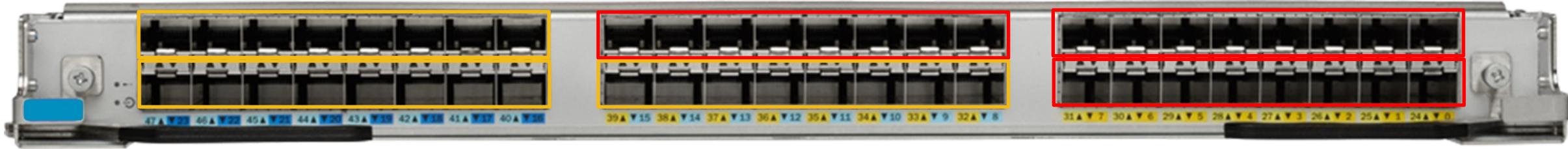
Presenter Name

Date

Port Layout of X7 48-Port Blades

Condor 5-based Gen 7 (FC64) and Gen 6 (FC32-X7) Blades
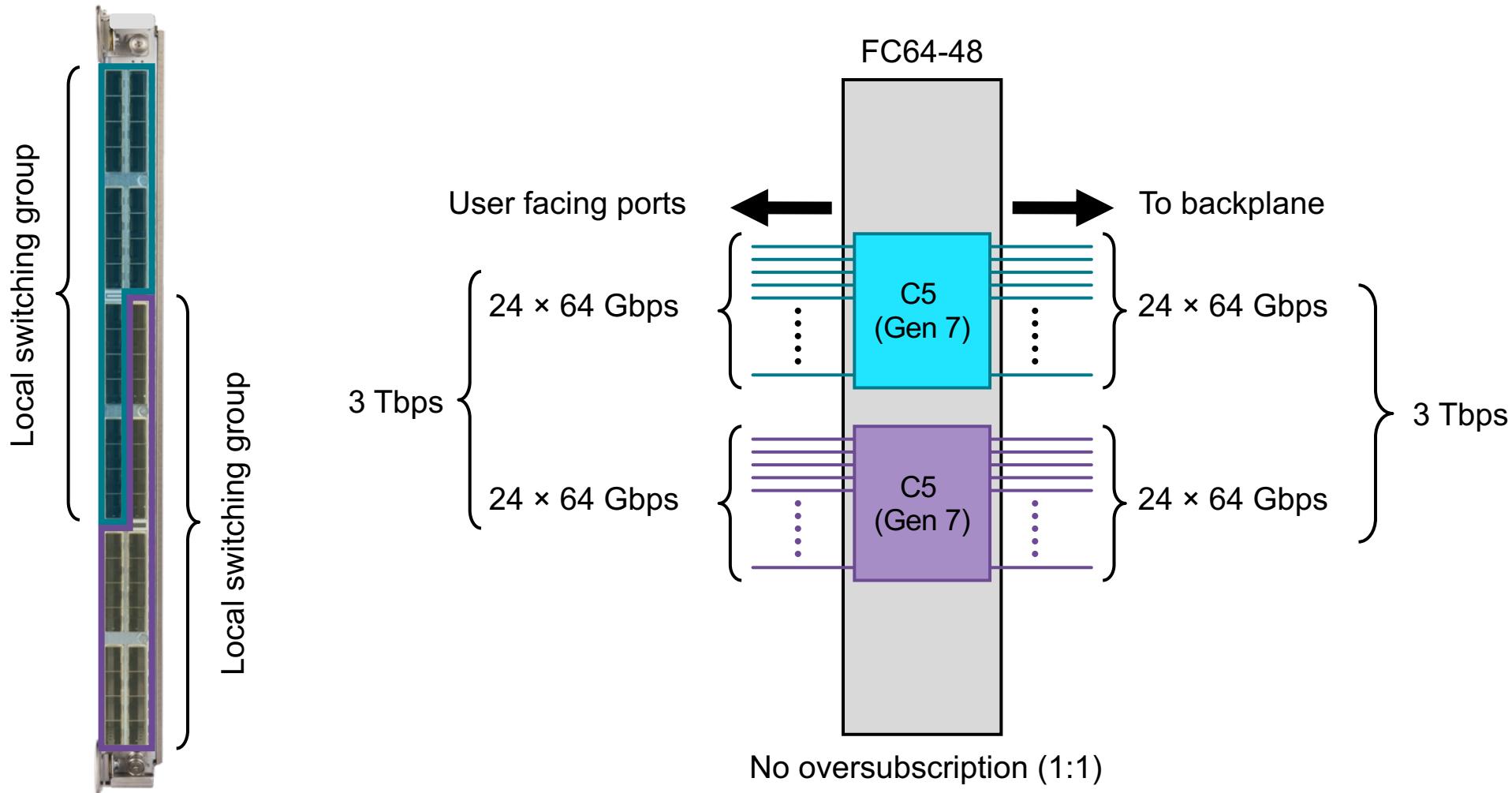

	C5-1 Ports	C5-2 Ports
Trunk Groups	0-7, 24-31, 32-39	8-15, 16-23, 40-47

- Range of 8-ports specified in the table above are part of 8-port trunk group
- Same trunk groups as FC32-48 blade (shown above)

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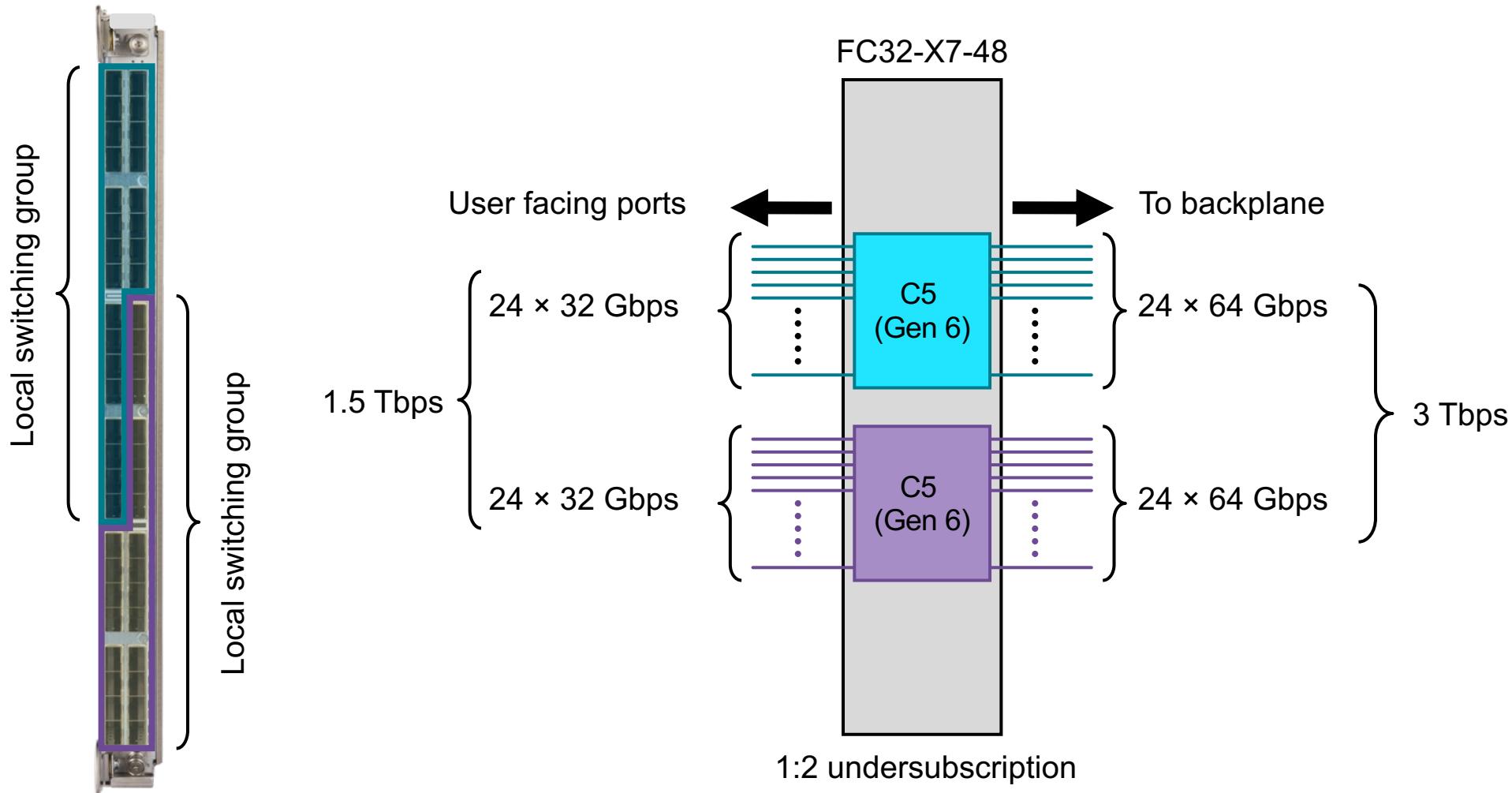
FC64-48 Gen 7 Port Blade
## ASIC Architecture

FC64-48

Local switching group

Local switching group

User facing ports ← → To backplane

24 × 64 Gbps — C5 (Gen 7) — 24 × 64 Gbps

3 Tbps

24 × 64 Gbps — C5 (Gen 7) — 24 × 64 Gbps

3 Tbps

No oversubscription (1:1)

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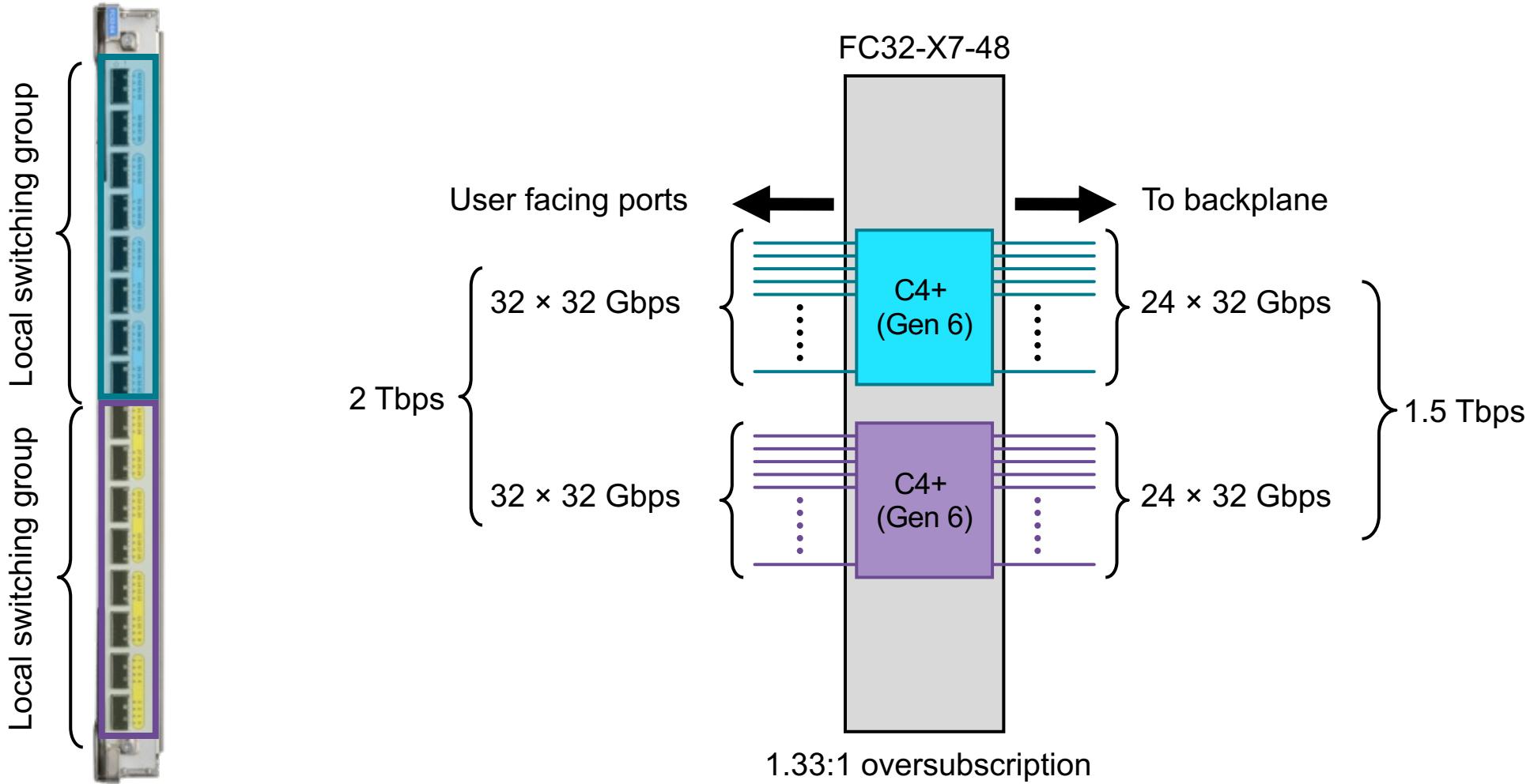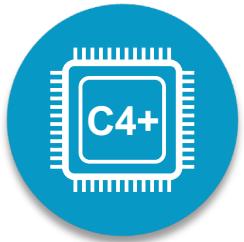
FC32-X7-48 Gen 6 Port Blade

ASIC Architecture

Local switching group

Local switching group

FC32-X7-48

User facing ports ← → To backplane

24 × 32 Gbps — C5 (Gen 6) — 24 × 64 Gbps

1.5 Tbps

24 × 32 Gbps — C5 (Gen 6) — 24 × 64 Gbps

3 Tbps

1:2 undersubscription
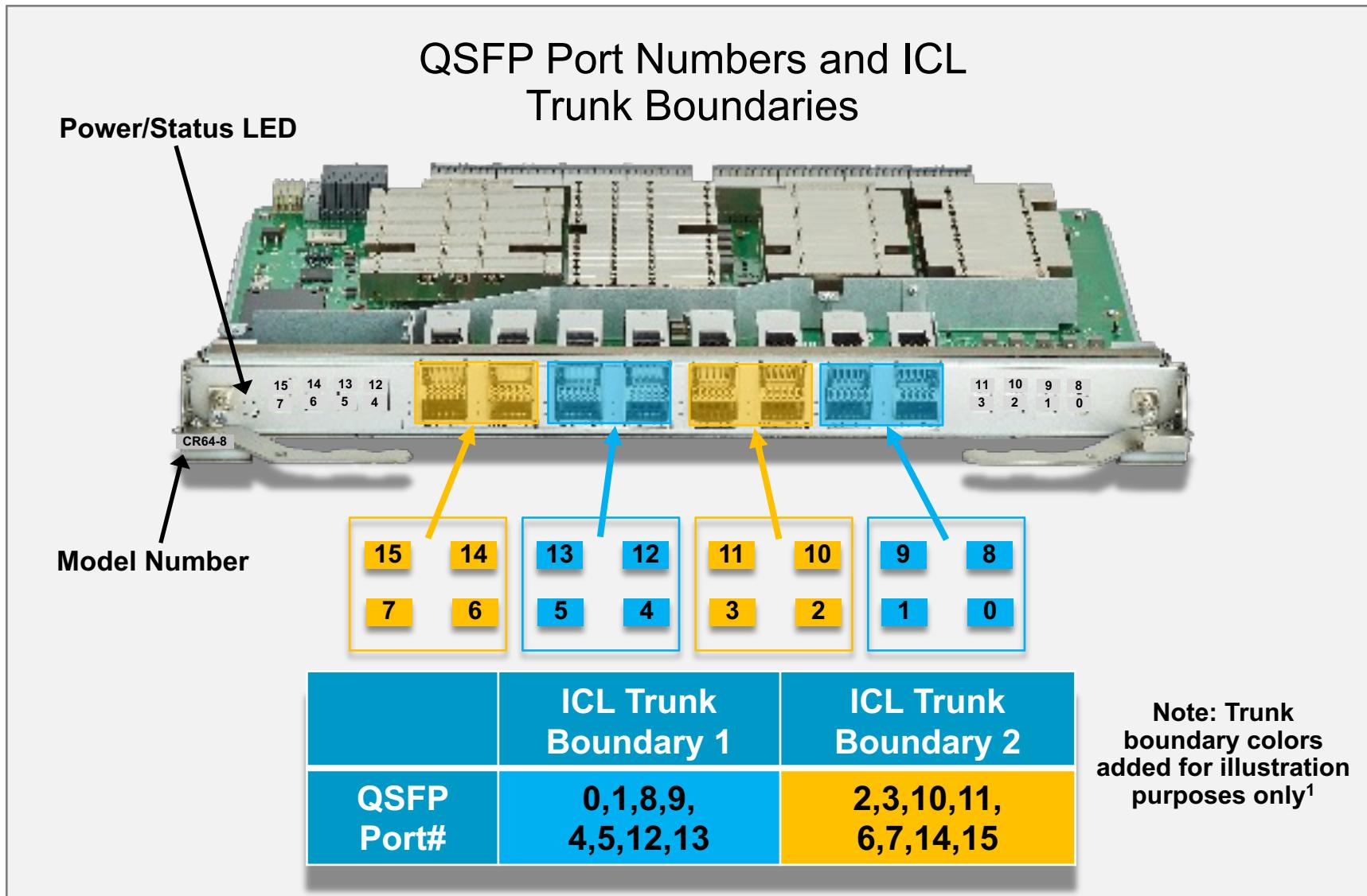
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FC32-64 Gen 6 Port Blade
ASIC Architecture

Local switching group

Local switching group

FC32-X7-48

User facing ports ← → To backplane

32 × 32 Gbps

C4+ (Gen 6)

24 × 32 Gbps

2 Tbps

32 × 32 Gbps

C4+ (Gen 6)

24 × 32 Gbps

1.5 Tbps

1.33:1 oversubscription
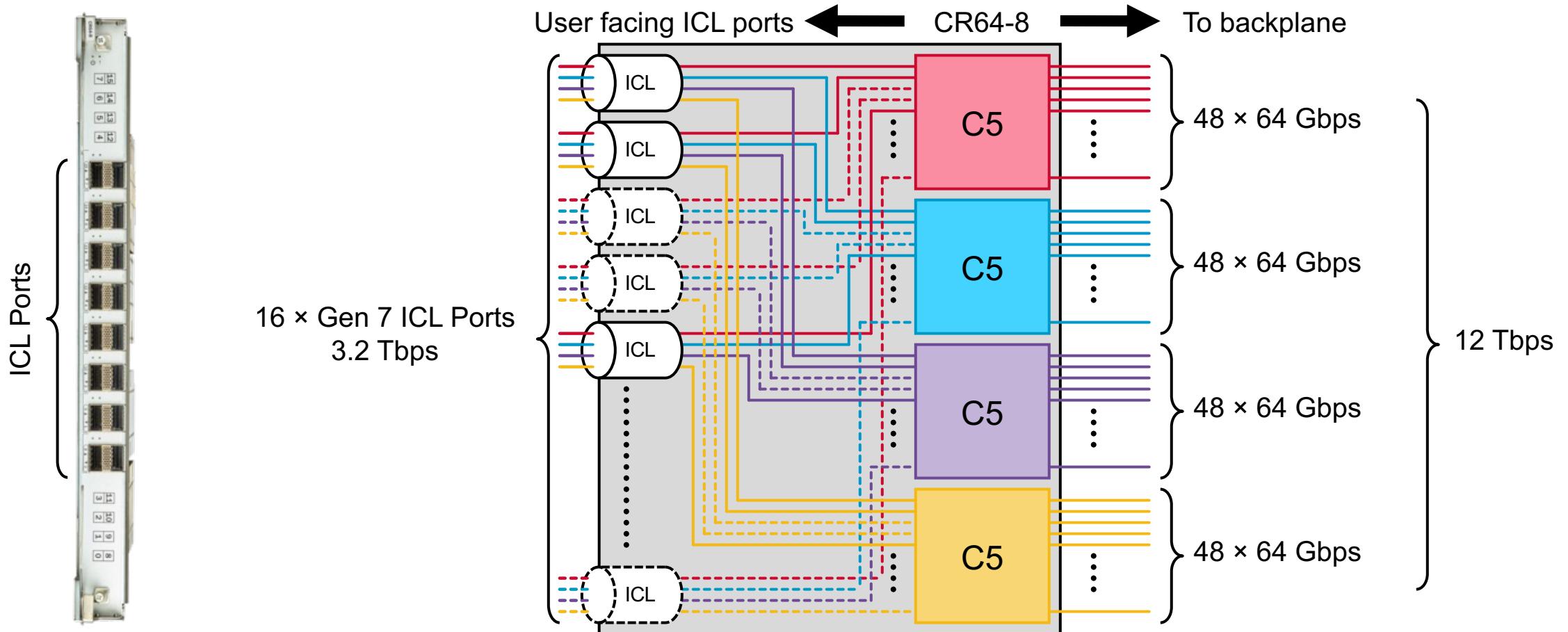
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CR64-8 Core Routing Blade for X7-8

Layout

QSFP Port Numbers and ICL Trunk Boundaries

Power/Status LED

Model Number

15	14		13	12		11	10		9	8
7	6		5	4		3	2		1	0

	ICL Trunk Boundary 1	ICL Trunk Boundary 2
QSFP Port#	0,1,8,9, 4,5,12,13	2,3,10,11, 6,7,14,15

Note: Trunk boundary colors added for illustration purposes only[1]
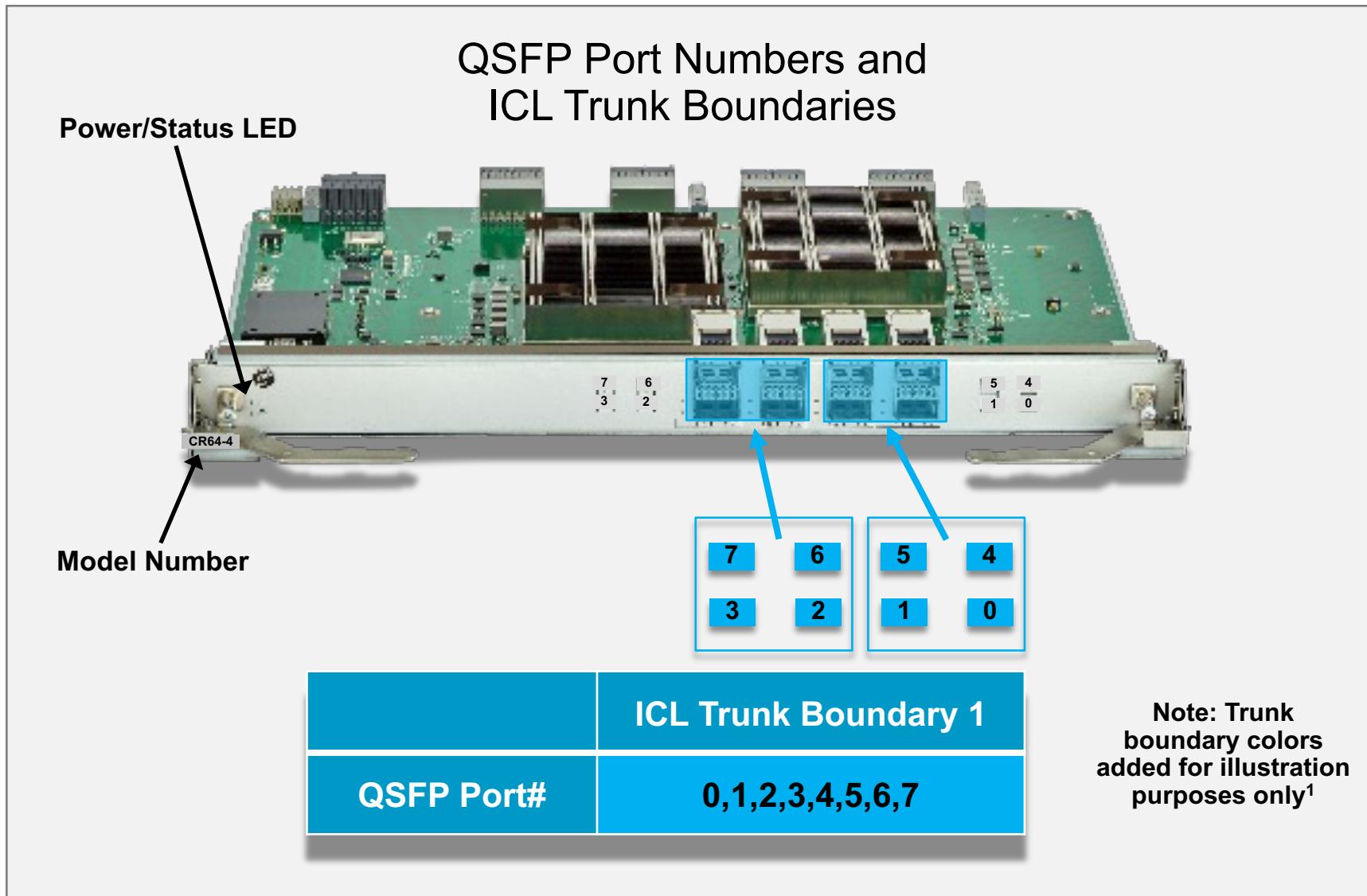
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CR64-8 Core Routing Blade for X7-8

Block diagram
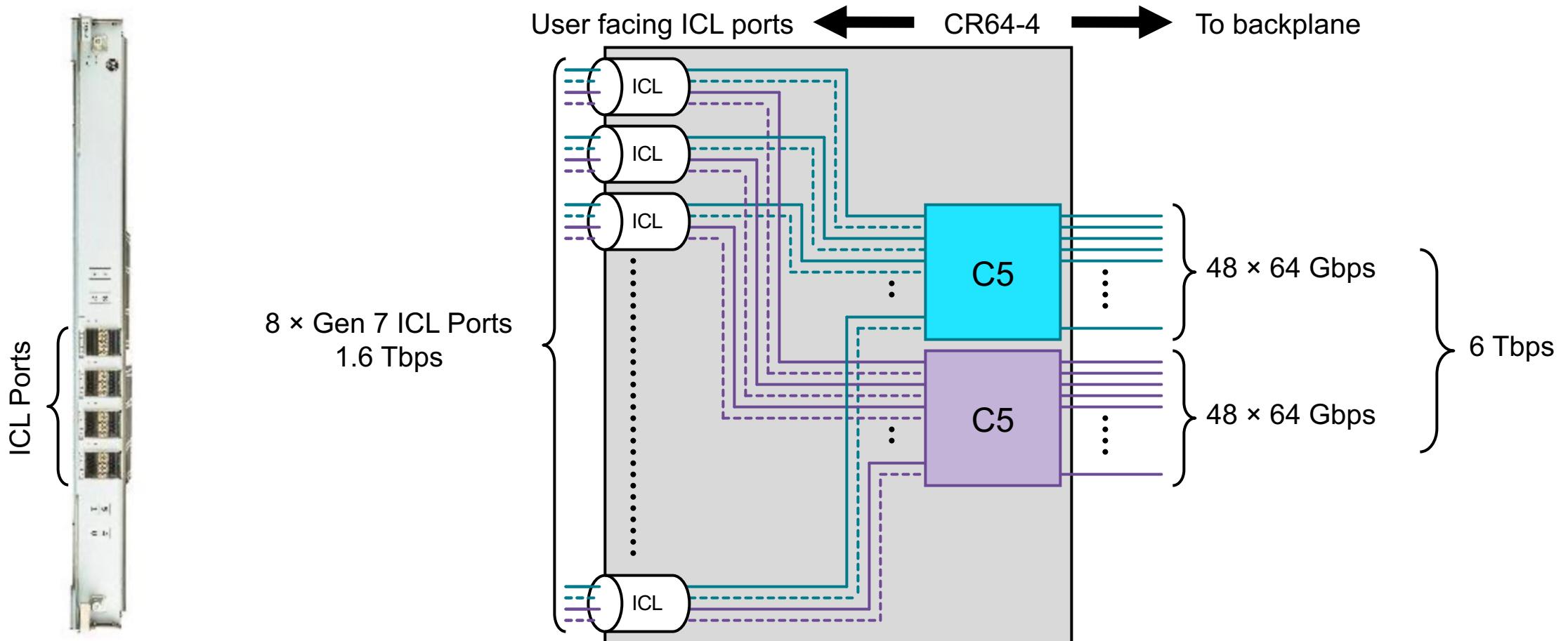
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CR64-4 Core Routing Blade for X7-4

Layout

QSFP Port Numbers and
ICL Trunk Boundaries

Power/Status LED

Model Number

	ICL Trunk Boundary 1
QSFP Port#	0,1,2,3,4,5,6,7

Note: Trunk boundary colors added for illustration purposes only[1]

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CR64-4 Core Routing Blade for X7-4

Block diagram

User facing ICL ports ← CR64-4 → To backplane

ICL Ports

ICL
ICL
ICL
ICL

8 × Gen 7 ICL Ports
1.6 Tbps

C5
C5

48 × 64 Gbps
48 × 64 Gbps

6 Tbps

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