

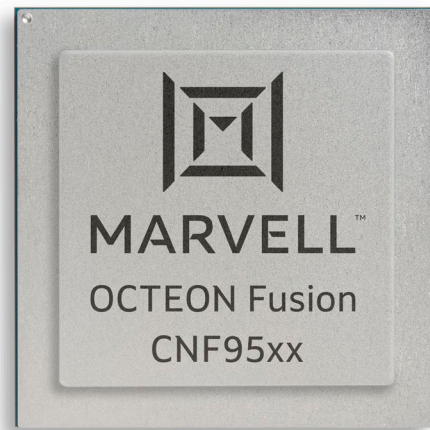


OCTEON Fusion CNF95xx Press Briefing Presentation

CNF95xx Product Introduction

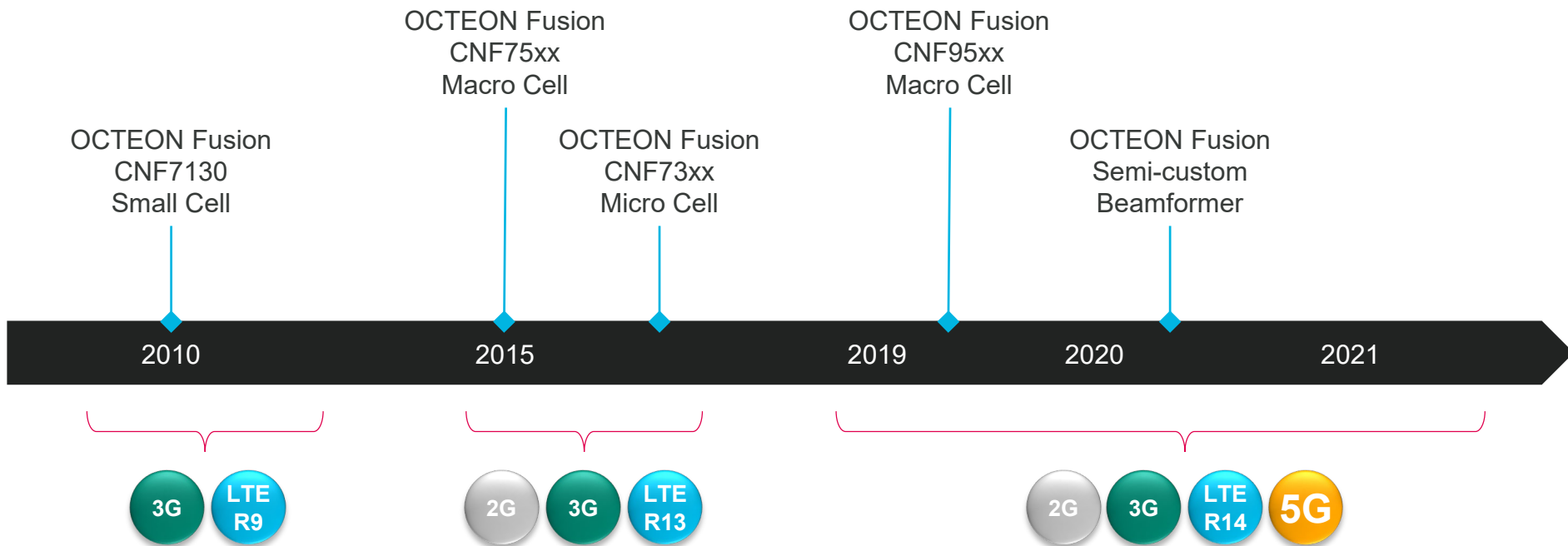
Announcing Next Generation Family of OCTEON Fusion

- Industry-leading merchant silicon 5G macro cell baseband processor family
- Supports traditional all-in-one macro and disaggregated Distributed Unit (DU) base station architectures
- Delivers the performance of an ASIC with the flexibility of a processor
- May be tailored via differentiated IP integration on a per customer basis



CNF95xx is in
volume production
with a Tier 1 OEM

A Long History of Compute Innovation



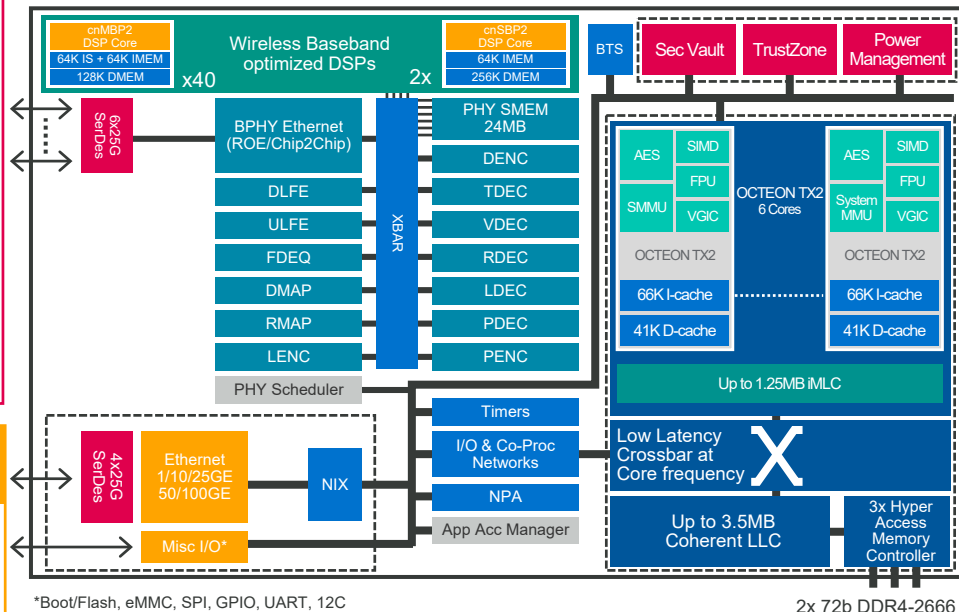
OCTEON Fusion CNF95xx Architecture

PHY Subsystem

- Software defined PHY subsystem
- Multi-core DSPs
- 4G/5G Specific HW accelerator blocks
- Dedicated large internal SMEM
- High-speed non-blocking multi-ported Interconnect Fabric
- PHY Ethernet for radio and very low-latency chip-to-chip interface

SoC Interfaces

- 25G SerDes support
- 100G/50G/25G/10G/1GbE support
- Application acceleration manager for core workload distribution
- Packet IO acceleration support



OCTEON TX2 CPU Cores

- Arm v8.2 Architecture, Up to 2.6 GHz
- Quad Issue, Out-of-order Pipeline
- 128b SIMD and floating-point support
- Full ARM virtualization spec supported

Cache, Interconnect

- Coherent MLC and LLC
- Low-latency interconnect at core speed
- Up to 2x DDR4-2666 MHz

Multiple Business Model Options

BUY

OCTEON Fusion
CNF95xx Merchant
Solution

Leading cellular baseband
supplier to infrastructure market

Proven 10+ year track record
Software and ecosystem support

PARTNER

Semi-custom CNF95xx-
based solutions

Customer
IP

Leverage OCTEON Fusion for
related processing functions

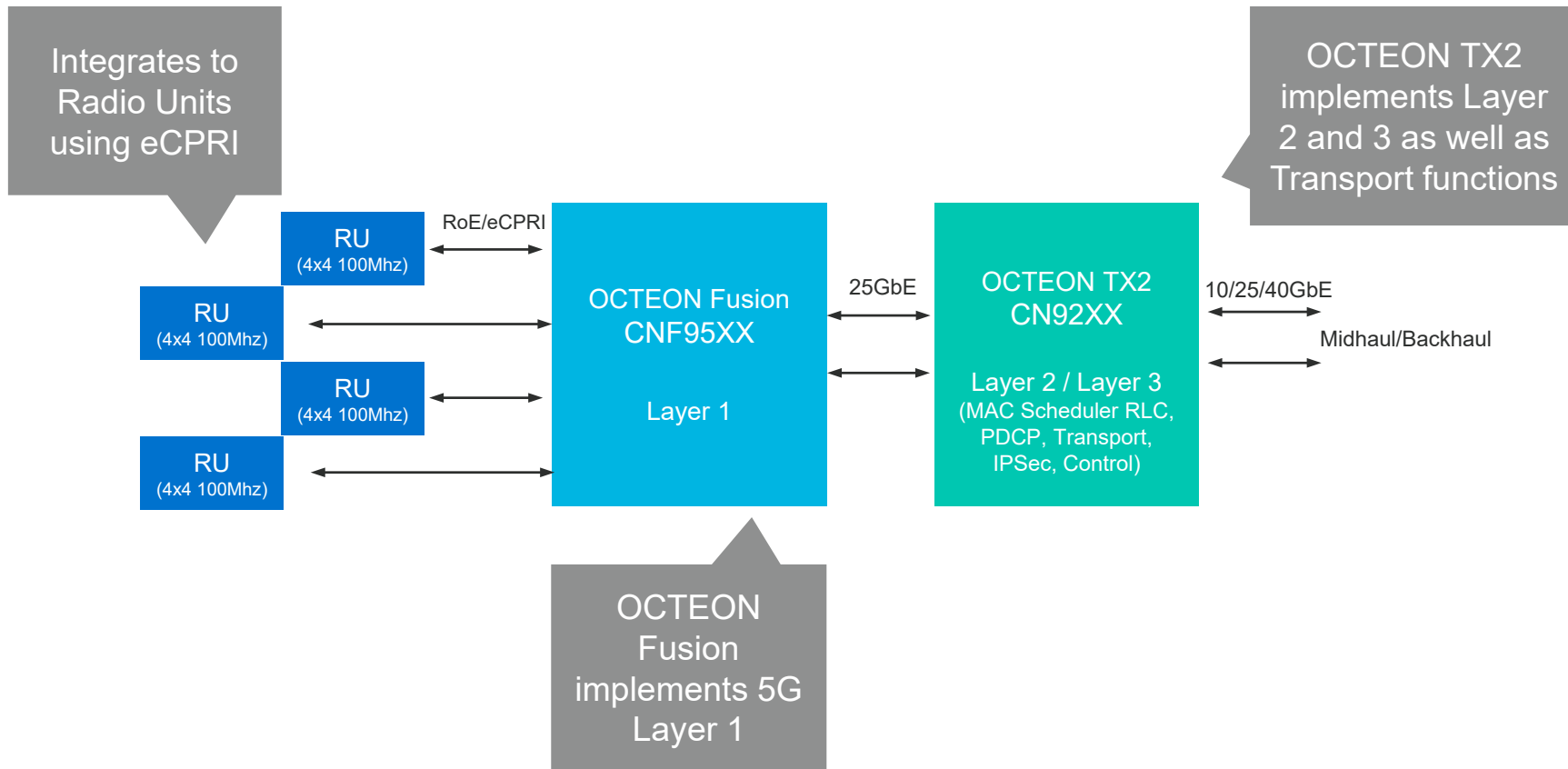
BUILD

ASIC designed around
OCTEON Fusion IP

End-to-end technology
development

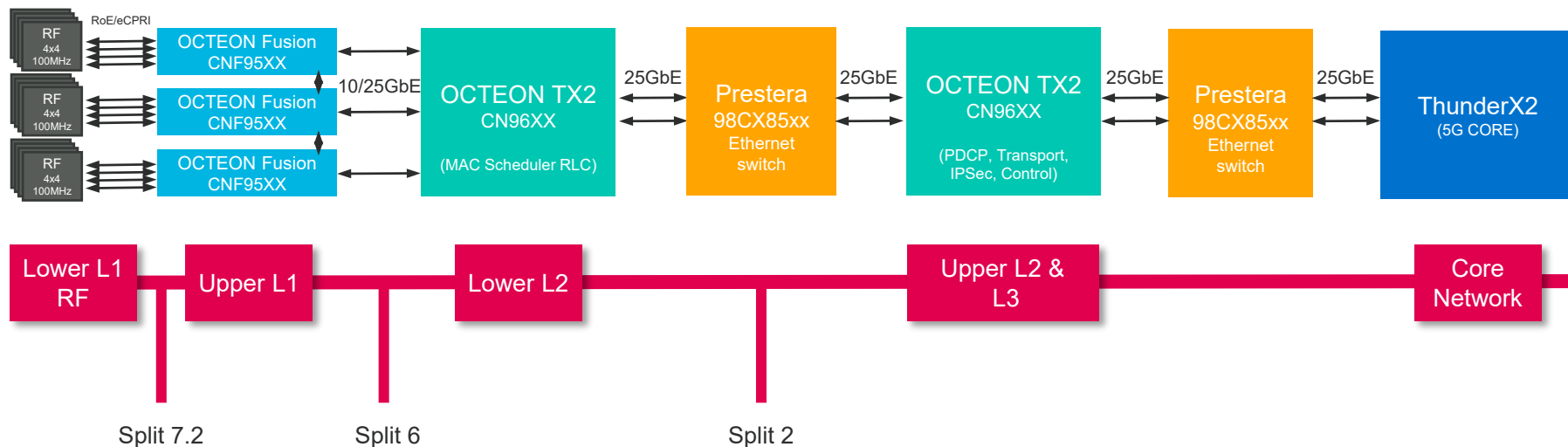
Leading process nodes and IP

5G Macro Cell All-in-One Example



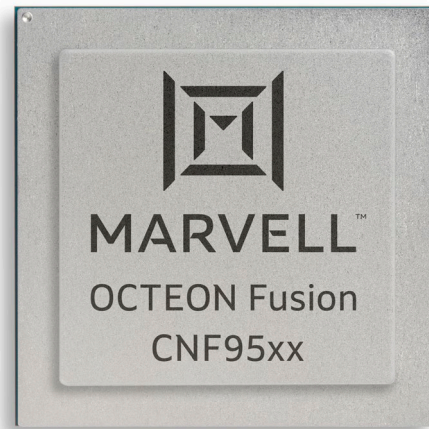
5G O-RAN Architecture Design Example

Marvell complete Portfolio enables 5G system architectures, such as the one proposed by the ORAN Alliance, to scale deployments and achieve the best OPEX and CAPEX in the industry



OCTEON Fusion – Key Takeaways

- Industry-leading merchant silicon 5G macro cell baseband processor family
- Supports traditional all-in-one macro and disaggregated Distributed Unit (DU) base station architectures
- Delivers the performance of an ASIC with the flexibility of a processor
- Currently in Volume production with a Tier1





Essential technology, done right™