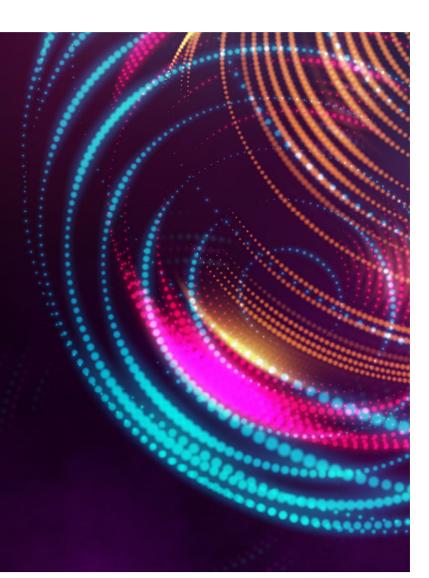
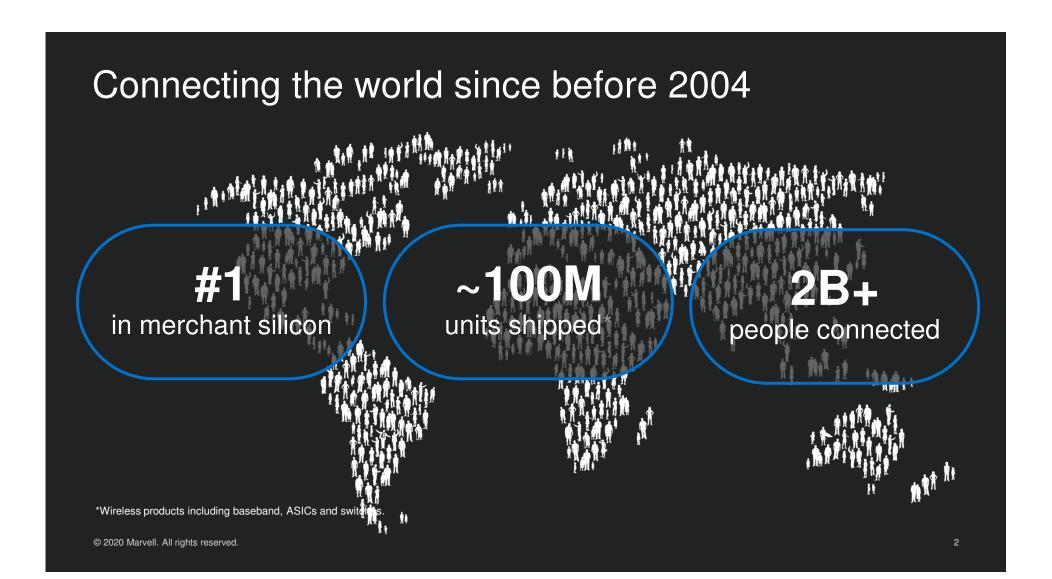


Leadership in 5G RAN

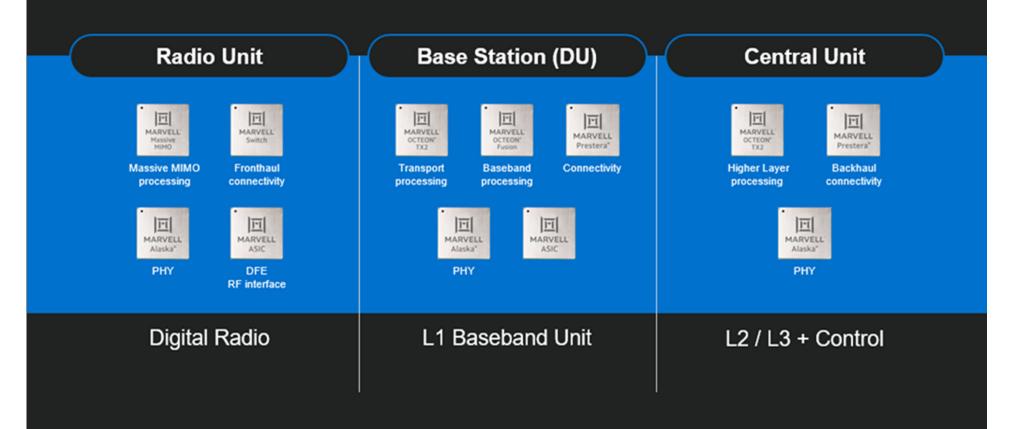
Extending Into O-RAN / vRAN

December 8, 2020





Marvell's Wireless portfolio



Marvell's O-RAN Platform © 2020 Marvell. All rights reserved.

Introducing our O-RAN platform

mMIMO radio units



OCTEON Fusion-O RU

Key Hardware features

- 5G lower L1 acceleration
- eCPRI w/compression
- 32T32R @ 100MHz

O-RAN Reference Software

- Reference lower L1
- O-RAN management plane
- Reference Beamforming
- RF control

Distributed units



OCTEON Fusion-O DU

Key Hardware features

- 5G/LTE L1 acceleration
- 5G: Up to 16 DL / 8 UL layers
 @ 100 MHz
- 10 Gbps DL / 5 Gbps UL

O-RAN Reference Software

- Reference L1
- O-RAN APIs
- IEEE1588 timing

Centralized units





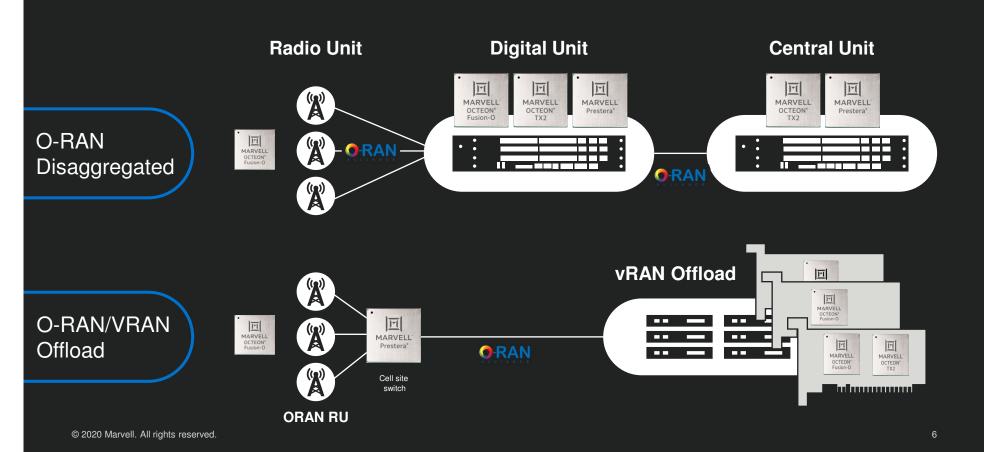
CN92/96/98xx DPUs & Prestera 7K

Key Hardware features

- Multicore Arm
- Full L2
- IPsec
- DPDK Acceleration
- Full Virtualization
- Fast Path Transport
- Metro access switch for 400G backhaul

© 2020 Marvell. All rights reserved.

Purpose-built platforms for O-RAN architectures

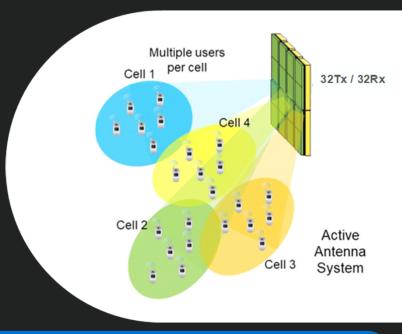


Massive MIMO O-RAN radio unit

- A complete RU design supporting O-RAN 7.2 split
 - From antenna array to lower L1
 - Superior cost and power attributes
- 32T32R / 8 layers / 100MHz channelization
- 32Tx32Rx
- Software
 - Lower L1 and Beamforming
 - O-RAN management plane
 - Antenna calibration
 - Digital Pre-distortion
 - Crest Factor Reduction



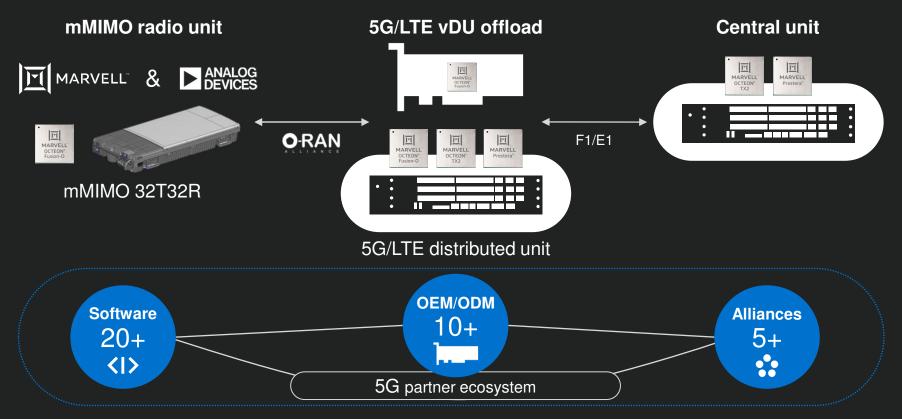




>5Gbps of steered downlink user data dynamically allocated where and when needed

© 2020 Marvell. All rights reserved.

Introducing our O-RAN platform



© 2020 Marvell. All rights reserved.



Essential technology, done right™