

STARRY™

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WHAT IS STARRY INTERNET?

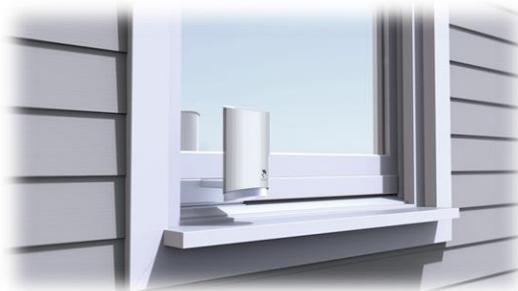
- ★ A new way of delivering broadband access to the home, wirelessly
 - ★ Using millimeter wave technologies
- ★ Capable of delivering gigabit speeds of internet service to the home
 - ★ Deployable with moderate cost vs. fixed wireline

THE STARRY INTERNET ECO-SYSTEM



STARRY BEAM

Active mmWave phased arrays
Hybrid MU-MIMO
Integrated Backhaul



STARRY POINT

Consumer Install
High Rate Service
Safe Operation



STARRY STATION

Transparent WAN/LAN
IoT Hub
Smart Home Management

KEY INNOVATIONS

THE USE OF BASEBAND/RADIOS IN INFRASTRUCTURE

- ⦿ 802.11ac-based 5 Gbps per sector with MU-MIMO (15 Gbps per site)
- ⦿ Transitioning to 802.11ax in mid-2017 (45~50 Gbps per site)

DEVELOPMENT OF ACTIVE PHASED ARRAY FOR CONSUMER INTERNET ACCESS

- ⦿ Hybrid Multi-beamformed Rx & Tx
- ⦿ Effective range up to 1.5km, taking into account conditions

OPTIMIZED SELF-INSTALL SUBSCRIBER UNITS

- ⦿ Optimized for fixed wireless application
- ⦿ Easy to use, consumer-installed
- ⦿ Access point (Starry Station) included

PARALLELS AND OPPORTUNITIES WITH 5G

- ⊙ The 5G Mission: connect 100s of billions of connected devices
 - Significant bandwidths
- ⊙ Active discussion in community: Mix of sub-6 GHz and mmWave
- ⊙ Where we see opportunities:
 - Similarity to WiFi: 802.11ac (2013) and 802.11ax (2016)
 - Additional opportunities for IoT
- ⊙ Where we see development opportunities:
 - Mobility
 - Band performance

