

CASE STUDY

CERAGON ENABLES A LARGE MOBILE OPERATOR IN ASIA TO

**REACH
OVER 50%
POPULATION
COVERAGE
IN RECORD TIME**



MOBILE



SOUTHEAST ASIA

THE CHALLENGES

Accelerate subscriber acquisition rate | Reach over 50% population coverage | Deploy ultra-fast 4G network | Prepare network for 5G
Speed up cell-site acquisition and connectivity (backhaul/fronthaul)
Easily ramp-up network capacity

A large mobile operator in Asia kicked off an ultra-ambitious plan to deploy hundreds of thousands sites across the country and to provide over 50% population coverage in a 6 months time and to extend it to 75% within another 12 months. The project included a massive site acquisition effort and an extremely large-scale network rollout and commissioning. With 10s of millions of subscribers joining the network it also required a very quick capacity ramp-up across the entire network. This operator chose Ceragon as its strategic partner to support its ambitions with a unique wireless backhaul solution.

THE SOLUTION

All-outdoor cell sites | High-capacity, high-efficiency wireless backhaul | Multicore technology | Remotely upgradable solution | Radio expert services

In order to rapidly deploy its infrastructure in any environment across the country, the carrier adopted Ceragon's multicore technology and installed all-outdoor cell sites wireless backhaul connections. By teaming up with Ceragon for wireless backhaul and with other leading vendors for RAN and networking, the mobile operator successfully created a state-of-the-art and compact all-outdoor, scalable configuration that doubles capacity on the fly. Today, wireless backhaul infrastructure comprises the lion's portion of the Asia's mobile operator network.

Ceragon's all outdoor wireless backhaul solution enabled the operator to:

- Remotely double wireless backhaul capacity from 100-200mbps to 0.5-1Gbps with Ceragon's unique "one click, double the capacity" feature which supports huge capacity ramp-up and does not require on-site presence, service interruption or any additional hardware.
- Accelerate service ramp-up that simplifies rollout of innovative 4G services.
- Leverage 4x4 LoS-MIMO technology to resolve capacity crunch in its backbone links without using additional spectrum and to achieve 1-2Gbps capacity, eliminating the need to switch to a fiber-based infrastructure.
- Provide full support for design & planning including on-site investigation, installation and commissioning, and integration.
- Optimize full-outdoor sites; all outdoor radios ease site acquisition and ensure quick deployment and minimize floor dimensions in the tower or monopole scenarios.
- Shorten the duration for site acquisition and site connectivity (backhaul) by 50% by eliminating the need for indoor rack space for the networking unit or for a shelter used for other equipment
- Simplify operations and contribute to faster time to market with 80% fewer part numbers in the network by utilizing a single box that combines both radio and networking functionality and comes with 1+0 and 2+0 configurations.
- Reduce power consumption by 70% and increase power efficiency; the lack of an indoor unit eliminates the need for an air conditioning system and its power consumption.
- Benefit from improved security and vandalism resistance; installing all outdoor equipment high above the ground leads to additional security and would require from vandals to use extreme measures to physically reach it.

