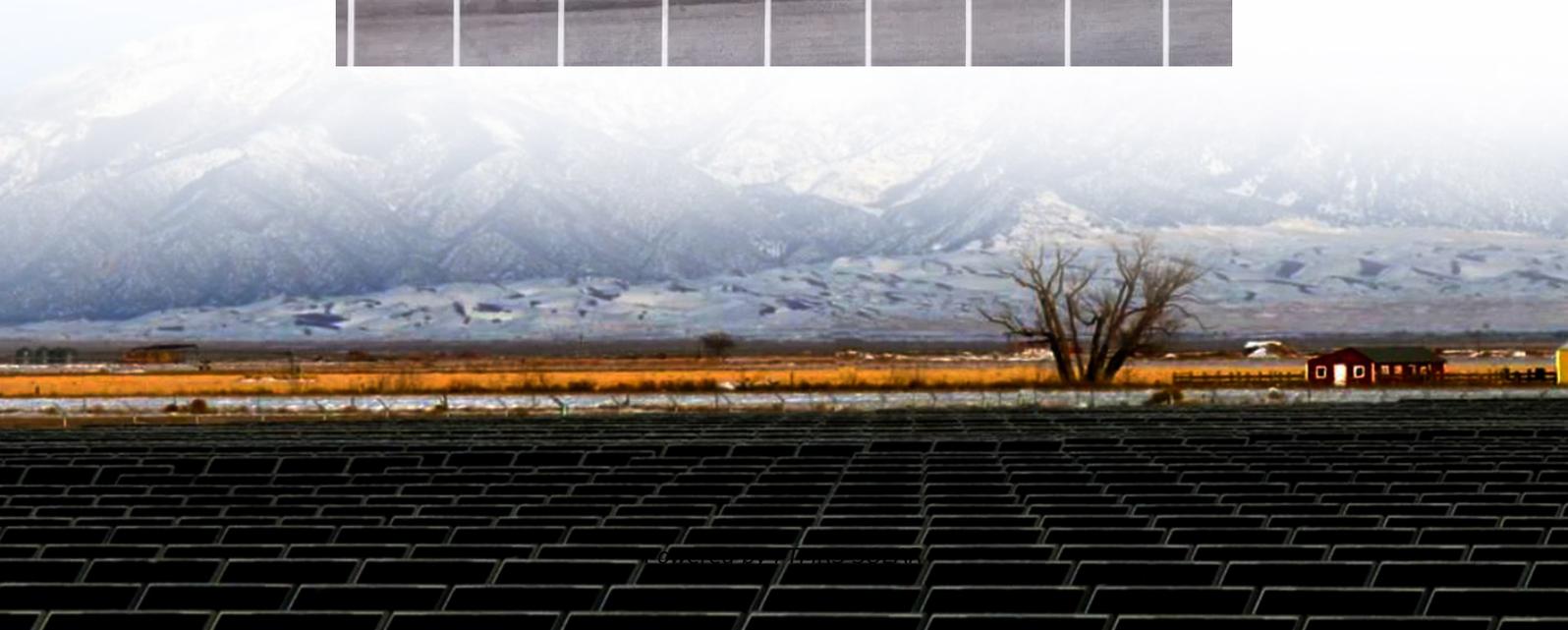
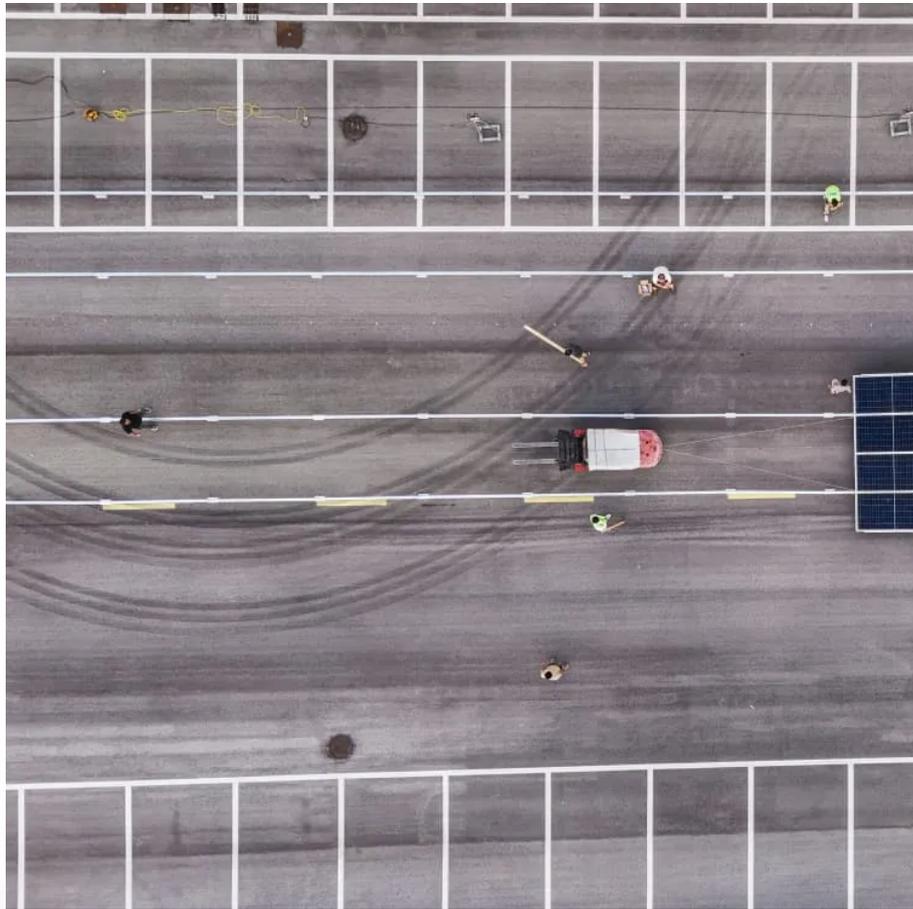


5g base station communication module





Overview

What is a 5G baseband?

Baseband, which is the modem layer for 5G networks, has evolved through multiple steps as compared to 4G networks. 5G technology provides an exponential increase in bandwidth and the number of connections and services offered, so implementing baseband transmission is a key architecture decision that will impact the design of the entire network.

What is a 5G base station?

It consists of antennas, transceivers, and digital processing units that transmit and receive radio signals between user devices and the network. 5G base stations operate on various frequency bands, including sub-6 GHz and mmWave, to deliver ultra-low latency, high data throughput, and enhanced capacity.

What is a 5G baseband unit (BBU)?

To support the new architecture that is needed, 5G network's classic layer—Baseband Unit (BBU)—has been split into the Distributed Unit (DU), which forms the lower layer, and the Centralized Unit (CU), which forms the upper layer. We understand the distinct design and deployment challenges of creating complex 5G equipment.

What is a 5G radio access network?

The 5G Radio Access Network (RAN) is the interface between user devices and the 5G core network. It comprises base stations and small cells that manage radio communications, enabling ultra-fast data transfer and low-latency connections.



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