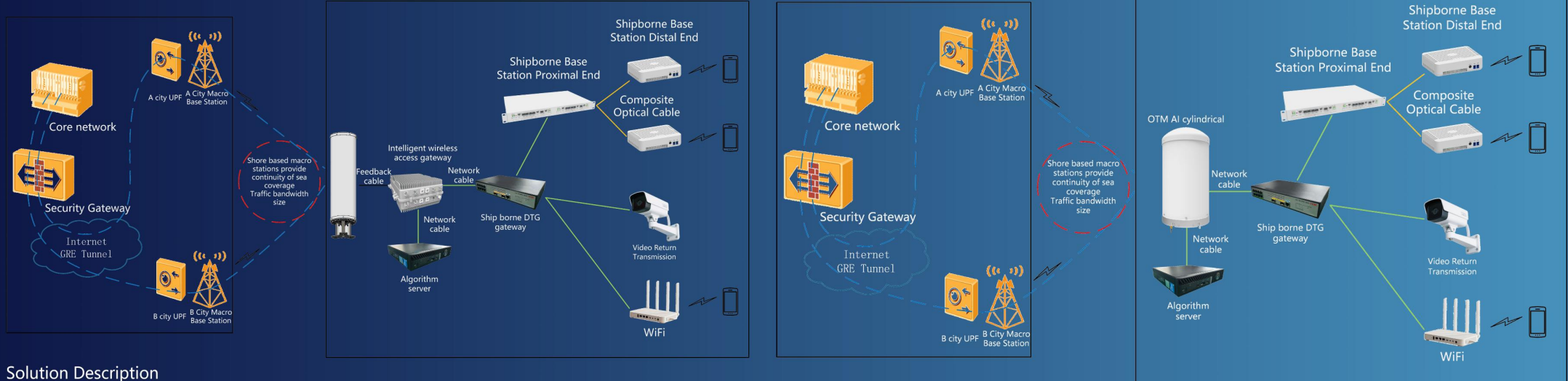


Ultra-Distant Sea Area 5G Intelligent Coverage System Shipborne End-To-End Communication Solution



Solution Description

① Backhaul channel:

·Go through the internet and backhaul to the core network through a 4G/5G security gateway.

② Shipborne equipment:

- Macro base stations provide continuous 5G wireless coverage for air routes and offer bandwidth for entry.
- Shipborne antenna: communicates with terrestrial macro base stations through air interface. The unique three sector design enhances SINR, with high gain up to 13.5dBi at low frequencies and up to 18dBi at high frequencies.
- The CPE machine includes a set of CPE devices, provides an automated interface, and cooperates with the algorithm server to achieve continuous and optimal rates. It can provide a variety of algorithms (network monitoring, macro station optimization, dynamic network selection, cross-area coverage, route drawing, cell shutdown, customized flow control and other algorithms)
- Shipborne DTG gateway allocates traffic provided by macro stations. Provide video backhaul, provide WIFI payment.
- The shipborne base station provides LTE voice/internet/SMS services.