ABSTRACT

SINGLE-CABLE FOUR-STREAM COVERAGE SYSTEM BASED ON PASSIVE FREQUENCY CONVERSION, POWER CONSUMPTION CONTROL METHOD, AND MEDIUM

The present disclosure relates to the field of communications, and provides a single-cable four-stream coverage system based on passive frequency conversion, a power consumption control method and a medium. The system includes a power controller, a first Remote Radio Unit (RRU), a second RRU, a three-port multi-band combiner, a coupler, a two-port multi-band combiner and a passive frequency conversion antenna. The first RRU outputs a signal carrying data information, the power controller controls signal output power of the first RRU, the three-port multi-band combiner combines signals transmitted via three channels, the coupler equally divides a received signal, and the passive frequency conversion antenna outputs a combined signal sent by the two-port multi-band combiner to the outside. In the present disclosure, a total of four channels of signals generated by the first RRU and the second RRU are transmitted via the aforementioned elements to the passive frequency conversion antenna, so as to achieve a four-stream coverage effect through a single-cable distribution system.

Figure 1