

## ABSTRACT

### **MIMO SIGNAL EXTENSION APPARATUS**

Disclosed is a multiple input multiple output (MIMO) signal extension apparatus for extending, by a predetermined distance, a MIMO signal which is applied to a multiple access scheme wireless communication system such as a long term evolution (LTE) communication system, together with a signal of a different frequency band or different communication scheme, such as LTE, WCDMA and CDMA 1X, using a single cable.

Figure 3