

Abstract

The present disclosure provides an enhancement method and apparatus for an uplink phase tracking reference signal (PT-RS), and a communication device, which relate to the technical field of wireless communications. The method comprises: sending, by means of a network side device, an indication message to a UE, the indication message comprising a plurality of PT-RS indication information for indicating a plurality of transmission reception points (TRPs) that respectively correspond to same, and the PT-RS indication information being used to indicate that the PT-RS is sent to the corresponding TRPs and to indicate a demodulation reference signal (DMRS) port associated with a corresponding PT-RS port. Since the indication message sent to the UE comprises the plurality of PT-RS indication information sent to the corresponding TRPs, and each piece of PT-RS indication information indicates a DMRS port associated with a corresponding PT-RS port, the problem in which a PT-RS cannot be associated with a DMRS port for different CPE noise sources when the PT-RS is transmitted on the basis of multiple TRPs is solved, which is beneficial for improving system performance.

FIG. 1