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Abstract— **Complementary Code combining diversity is a simple and efficient technique to exploit the advantages of a hybrid satellite/terrestrial system. In this paper, the application of code combining diversity to Digital Video Broadcasting Satellite to Handheld (DVB-SH) systems is investigated. It is shown that a meaningful diversity gain can be obtained in multiple frequency networks by combining the terrestrial and satellite signals. This gain allows an improvement of the receiver robustness in both static and mobile scenarios. Furthermore, in terminals with two receiver branches, a common situation in DVB-SH, this gain can be easily obtained without increasing the hardware complexity.**