

Dual Mode Radio Subscriber Unit Having A
Diversity Receiver Apparatus And Method Therefor

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Abstract of the Disclosure

A dual mode cellular radiotelephone subscriber unit (802) comprises a diversity receiver (812) and a controller (814). The diversity receiver (812) receives either a first radio frequency (RF) signal (808) modulated by a digital modulation method (805) or a second RF signal (810) modulated by an analog modulation method (807). In one embodiment, the controller (814) controls the diversity receiver (812) responsive to a first diversity algorithm (834) when the diversity receiver (812) receives the first RF signal (808) modulated by the digital modulation method (805), and responsive to a second diversity algorithm (836) when the diversity receiver (812) receives the second RF signal (810) modulated by the analog modulation method (807). In another embodiment, the controller (814) controls the diversity receiver (812) responsive to a first received information set (835) when the diversity receiver (812) receives the first RF signal (808) modulated by the digital modulation method (805), and responsive to a second received information set (837) when the diversity receiver (812) receives the second RF signal (810) modulated by the analog modulation method (807).

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Figure 8 accompanies this abstract.