

ABSTRACT**Communications Systems and Transceiver devices for the Communications
Systems**

- 5 A mobile communications system includes one or more user-operated mobile interface devices, such as mobile telephones, personal digital assistants, notebook PCs or audio-visual devices, and a mobile transceiver device. The mobile transceiver communicates with the mobile interface devices by short-range wireless communication. The transceiver device includes a multi-
- 10 element antenna array for wireless communication with the base station(s) of a cellular communication system, signal processing capacity which enables the transceiver to communicate with the base station(s) in multiple communication protocols, and a large power supply.

15 Fig. 1