

Title (en)
Module active antenna unit

Title (de)
Modulaktive Antenneneinheit

Title (fr)
Unité d'antenne active de module

Publication
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Application
EP 12306181 A 20120928

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Abstract (en)
The invention relates to a first subsystem (SS1) for an active antenna unit (AA). The first subsystem (SS1) contains first connecting means (CM1) of a detachable connection of the active antenna unit (AA) adapted to connect to second connecting means (CM2) of a second subsystem (SS2) for the active antenna unit (AA), at least one input port (IP1-SS1, IP2-SS1) at the first connecting means (CM1) connected to at least one transmit path (Tx1-SS1, Tx2-SS1) for receiving amplified first radio frequency signals from at least one output port (OP1-SS2, OP2-SS2) of the second subsystem (SS2), means (DF1, DF2) for filtering the amplified first radio frequency signals in the at least one transmit path (Tx1-SS1, Tx2-SS1), and the at least one transmit path (Tx1-SS1, Tx2-SS1) for providing the amplified and filtered first radio frequency signals to at least one antenna element (AE1, AE2). The invention further relates to a second subsystem (SS2) for an active antenna unit (AA). The second subsystem (SS2) contains at least one transmit path (Tx1-SS2, Tx2-SS2) for radio frequency signals, at least one power amplifier (P1, P2) in the at least one transmit path (Tx1-SS2, Tx2-SS2) for generating amplified radio frequency signals, at least one output port (OP1-SS2, OP2-SS2) connected to the at least one transmit path (Tx1-SS2, Tx2-SS2) at second connecting means (CM2) for providing the amplified radio frequency signals to at least one input port (IP1-SS1, IP2-SS1) of the first subsystem (SS1), and the second connecting means (CM2) of a detachable connection adapted to connect to first connecting means (CM1) of a first subsystem (SS1) for the active antenna unit (AA). The invention even further relates to an antenna array unit (AA), which contains the first subsystem (SS1) and the second subsystem (SS2).

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H01Q 1/246 (2013.01); **H01Q 21/0025** (2013.01); **H01Q 23/00** (2013.01)

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