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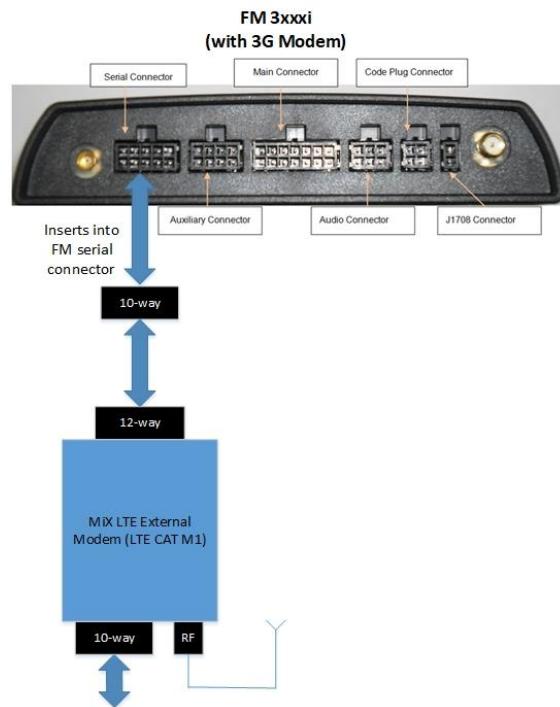
Subject: LTE CAT M1 External Modem Cover Letter

There is a need to extend the working life of FM 3xxx 2G/3G on board computer (OBC) hardware in regions where an evolution in cellular technology is taking place. By the addition of an external modem supporting the latest LTE CAT M1 technology and an over the air firmware upgrade, the OBC can transition from using its internal modem to using a new technology external modem.

The LTE CAT M1 External Modem consists mainly of a PSU, a level converter, a LTE CAT M1 modem with a nano SIM card holder.



Figure 1: Picture of the LTE CAT M1 External Modem



**Figure 2 Block Diagram of FM plus LTE CAT M1 External Modem**