

Tune-up procedure & limiting transmission power (2.1033(c) (9)-(10))

Transmission power is set by controlling gain-control input voltage of variable-gain amplifier at pre-stage of Power amplifier. By this control, transmission power level setting data table that shows relation of transmission power level (detected by wave detection type power detector that equipped with Power amplifier subsequent stage of Front End module) to transmission power level controlling signal (transmission power level control signal) is created. Therefore, accuracy and stability of transmission power is decided by accuracy of transmission power level setting data table and gain stability of transmission circuit including Power amplifier. Each transmission power level setting data table is measured and written in the production process.

Besides, power detector (D1010 on Front End module) detects output power of power amplifier at transmission period, and passes to radio signal processing block as detection signal (detection signal). Radio signal processing block convert it to digital signal by A/D converter, then take out through transmission power surveillance circuit (IC112)). Radio signal processing DSP (IC101) monitors its range, and shall stop transmission in case of any error.