Chip-Scale Package Options Target Space-Constrained Sports, Fitness, and Health Applications

Ultra low power (ULP) RF specialist Nordic Semiconductor ASA announced that it is to expand its existing 2.4 GHz RF and ANT+ product line-ups in Q1 2011 with a new set of ultra miniaturized, wafer-level chip scale package (WLCSP) options designed to meet the highly space-constrained needs of both existing and emerging sports, fitness and health applications such as wireless watches, bike computers, sensors, hearing aids and other devices designed to be worn on or near the body.

Sampling in Q1 2011 and available for volume orders in Q2 2011 will be the nRF24AP2 WLCSP (1- and 8-channel) and nRF24LE1 WLCSP (Flash or OTP) options.

The new 1- and 8-channel nRF24AP2 WLCSP package options will represent the world's small single chip ANT solutions (nRF24AP2-1CHC32 and nRF24AP2-8CHC32) featuring 400µm pitch (regular array) 32-ball BGAs with a thickness of 0.5mm and a flat footprint area of just 2.6 mm x 2.7 mm (7mm2) that is over 5x smaller than the footprints of competing 6 mm x 6 mm (36mm2) packaged products.

The new nRF24LE1 WLCSP option (Flash or OTP) will again be a 400µm (regular array) 32-ball pitch BGA measuring 2.7 mm x 2.7 mm (7.3mm2) in footprint area for the Flash version and 2.6 mm x 2.7 mm (7mm2) for the OTP version. Both devices are 0.5 mm in thickness.

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