

Abstract**INTEGRATED CIRCUIT ASSEMBLY HAVING OUTPUT PADS WITH
APPLICATION SPECIFIC CHARACTERISTICS AND METHOD OF OPERATION**

An application specific integrated circuit (202) for use with a circuit having particular electrical characteristic such as ringing or impedance. The circuit has an output pad (206) with an output transistor (260) having a drain connected to the output pad, and a gate (246) connected to the drain of a predriver transistor (244). The output transistor has a gate-source capacitance characteristic, and the predriver transistor has a predriver time constant above a selected threshold based on the electrical characteristic. The first predriver transistor also has a selected resistance based on the predriver time constant and the gate-source capacitance characteristic, such that the first predriver is operable to switch the output transistor at a sufficiently slow rate to avoid ringing.

(Figure 1)