The **7400 series** is a comprehensive family of **digital logic integrated circuits (ICs)** that has been foundational in digital electronics since its introduction by Texas Instruments in the 1960s. These ICs implement a wide array of logic functions, from basic gates to complex devices like multiplexers and counters.

Below is an **extensive list of 7400-series ICs**, organized by their primary function:

Logic Gates

- **7400**: Quad 2-input NAND gate
- **7401**: Quad 2-input NAND gate with open-collector outputs
- **7402**: Quad 2-input NOR gate
- **7403**: Quad 2-input NAND gate with open-collector outputs
- **7404**: Hex inverter (NOT gate)
- **7405**: Hex inverter with open-collector outputs
- **7406**: Hex inverter buffer/drivers with open-collector high-voltage outputs
- **7407**: Hex buffer/drivers with open-collector high-voltage outputs
- **7408**: Quad 2-input AND gate
- **7409**: Quad 2-input AND gate with open-collector outputs
- **7410**: Triple 3-input NAND gate
- **7411**: Triple 3-input AND gate
- **7412**: Triple 3-input NAND gate with open-collector outputs
- **7413**: Dual 4-input NAND gate with Schmitt-trigger inputs
- **7414**: Hex inverter with Schmitt-trigger inputs
- **7415**: Triple 3-input AND gate with open-collector outputs
- **7416**: Hex inverter buffer/drivers with open-collector high-voltage outputs
- **7417**: Hex buffer/drivers with open-collector high-voltage outputs
- **7419**: Hex inverter with Schmitt-trigger inputs
- **7420**: Dual 4-input NAND gate
- **7421**: Dual 4-input AND gate
- **7422**: Dual 4-input NAND gate with open-collector outputs
- **7423**: Dual 4-input NOR gate with strobe inputs
- **7425**: Dual 4-input NOR gate with strobe inputs
- **7427**: Triple 3-input NOR gate
- **7428**: Quad 2-input NOR gate with buffer
- **7430**: Single 8-input NAND gate
- **7432**: Quad 2-input OR gate
- **7433**: Quad 2-input NOR gate with open-collector outputs
- **7436**: Quad 2-input NOR gate with buffer
- **7437**: Quad 2-input NAND buffer
- **7438**: Quad 2-input NAND buffer with open-collector outputs
- **7440**: Dual 4-input NAND buffer
- **7441**: BCD to decimal decoder/driver for Nixie tubes
- **7442**: BCD to decimal decoder

- **7443**: BCD to decimal decoder
- **7444**: BCD to decimal decoder
- **7445**: BCD to decimal decoder/driver for LEDs
- **7446**: BCD to 7-segment decoder/driver for LEDs
- **7447**: BCD to 7-segment decoder/driver for LEDs
- **7448**: BCD to 7-segment decoder/driver for LEDs
- **7449**: BCD to 7-segment decoder/driver for LEDs
- **7450**: Quad 2-input AND-OR invert gate
- **7451**: Dual 2-wide 2-input AND-OR invert gate
- **7452**: Dual 2-wide 2-input AND-OR invert gate
- **7453**: Dual 4-wide 2-input AND-OR invert gate
- **7454**: Dual 4-input AND-OR invert gate
- **7455**: Dual 2-wide 2-input AND-OR invert gate
- **7456**: Dual 2-wide 2-input AND-OR invert gate
- **7457**: Dual 2-wide 2-input AND-OR invert gate
- **7458**: Dual 2-wide 2-input AND-OR invert gate
- **7459**: Dual 2-wide 2-input AND-OR invert gate
- **7460**: Dual 4-wide 2-input AND-OR invert gate
- **7461**: Dual 4-wide 2-input AND-OR invert gate
- **7462**: Dual 4-wide 2-input AND-OR invert gate
- **7463**: Dual 4-wide 2-input AND-OR invert gate
- **7464**: Dual 4-wide