The Advanced Multi-Touch Solution for Entry-Level Smartphones

Synaptics ClearPad™ 2200 is an advanced touchscreen solution for entry-level smartphones that require high performance, multi-touch input. The ClearPad 2200 is Synaptics' value solution for smaller displays, typically up to four inches. Its advanced capabilities and robustness enable new user interaction modes, unprecedented levels of industrial design, and integration flexibility.

ClearPad 2200 is supported by Synaptics' worldwide engineering centers and field-proven test and development tools like Design Studio 4 with patented SignalClarity™ Technology. Synaptics development support ensures a high-quality touch input implementation and accelerates customers' time-to-market.

Features

- State-of-the-art proprietary Touch Controller.
- New processor with high signal-to-noise ratio and computing power enables the best real-world touch input performance in the industry.
- Flexible and extensible technology enables a wide range of sensor stackups and industrial design options, including chip-on-main board, discrete sensor, and Sensor-on-Lens implementations.

The ClearPad Offering

The Synaptics ClearPad portfolio makes capacitive touchscreen sensing possible for a device manufacturers' complete line of products from entry-level feature phones to high-end smartphones, large form-factor tablets, and other electronic devices. ClearPad solutions include Series 1 for single-touch interaction, Series 2 for mass-market applications, Series 3 for multi-touch interfaces that can report up to 10 fingers, Series 4 for touch integrated display drivers, and Series 7 for large touchscreens and tablets.

Synaptics delivers a broad range of services that go far beyond standard chip offerings. All ClearPad products incorporate Synaptics' deep system engineering and human factors expertise, and enable device manufacturers to deliver a consistent high-quality user experience across a wide range of products.

Features and Benefits

Optimized for Smaller Displays
ClearPad 2200 supports displays typically up to four inches with 0D buttons (outside the sensor area) and current-controlled LED functionality all on-chip.

Highly Accurate
Advanced image sensing processing algorithms and optimized touch sensing controller hardware result in very accurate and stable multi-finger position reporting.

Responsive Touch
High report rates and low latency make ClearPad 2200 the most responsive capacitive touchscreen in the industry.

Robust Against Noise
ClearPad 2200 uses advanced filtering and noise mitigation algorithms that interface with a wider range of noisy components, such as chargers and displays.

Superior Ease of Use
Synaptics Design Studio 4 with patented SignalClarity Technology simplifies design-in and accelerates time-to-market.

Low Power, Less Energy
Advanced Touch Controller silicon and optimized power management help maximize battery life.

Proven Technology
With over a decade of experience in designing and testing ClearPad solutions, Synaptics has an unprecedented track record of getting devices to market. Synaptics' trusted capacitive touch sensing technology is used in over one billion devices.

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