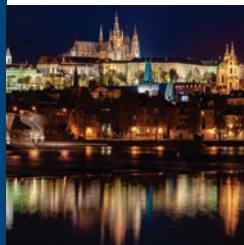




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# KYOCERA DISPLAY



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## TTI Stocks Kyocera Display

Kyocera International Inc. (KII) Display Division's long history of providing high quality, long-term product support and unmatched customer service makes them leaders in the industrial and automotive display markets they serve.

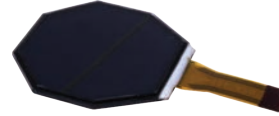
Kyocera Display is not just a display supplier but a total solution display partner, offering assembly solutions including touch panel integration, cover glass attachment, brackets, gaskets and cable attachment. Touch panel integration methods include tape or liquid optical bonding.

Kyocera Display has expanded production capabilities to include full turnkey, build-to-print and ruggedized all-in-one solutions. They also provide customers with a total LCD solution ready for integration into the final product.





Kyocera Display utilizes innovative technologies to achieve unequalled display performance. These include TFT and MIP display technologies, optically bonded touch screens and cover glass, anti-reflective coatings, wide temperature ranges, high contrast ratios, high pixel density and super-high-brightness displays for outdoor applications. Innovative technologies like these as well as a long product life cycle provide OEMs the ability to design and develop superior products to meet unique customer requirements



### Industrial TFTs

- Size and Resolution Ranges from 2.4" QVGA to 15.6" FHD
- Long Life Product Support, 7-10+ Years
- Wide Operating and Storage Temperature Ranges (-30°C to 80°C)
- Super High Bright Displays for Outdoor Applications, Up to 1500nits
- Advanced Wide View Technology: 85° Viewing Angle in All Directions
- Built-In Constant Current Circuit for LED Backlight on Many Displays
- High Product Mix, Low Volume, Production Capability: 1-2 Carton MOQ in Many Cases
- Development Kits Available to Support Customer Design Efforts
- Markets Served: Medical, HMI, Avionics, Industrial Automation, EV Charging Stations, Test & Measurement, Oil and Gas Production/Dispensing and many others

### Memory In Pixel Displays (MIP)

- Size Range from 0.68" to 2.27"
- Low Power Consumption Due to Built-In Memory Structure (SRAM) On Each Pixel
- Typical Power Consumption is 0.01mW for a 256x256 pixel, 1.81" MIP
- Wide Viewing Angle and High Contrast
- Wide Operating and Storage Temperature
- Inner Reflective Layer Provides Superior Visibility in All Lighting Conditions
- Reduced Surface Reflection with the Use of Moth Eye Film
- No Shadowing with Inner Mirror Electrode Implemented into Array Structure
- Ideal Applications: Wearable Devices, Secondary Display for Cameras, Hand Held Medical Devices



### Value-Add Capability

- U.S. Based Value Add Production Facility Located in Plymouth, Michigan
- Full Kyocera Warrantee Support on all Value-Add Assemblies
- 1600sq ft Certified Class 1000 Clean Room
- Optical Bond Process Performed in Plymouth, Michigan Facility
- Liquid Optically Clear Adhesive (LOCA) Bonding Material Used to Bond PCAP Touchscreens and Cover Glass
- Perimeter Tape Bond also Available for PCAP Touchscreens as well as Resistive Touchscreens
- Expansion of Clean Room and Second Optical Bond

- Production Line to be Implemented in 2023
- Gaskets, Brackets, Diffusers and Lightguides and Cables can be Provided Based on Customer Requirements
- Full Bill of Material Procurement Supported by the Kyocera Team
- Standard, Off-the-Shelf, Optically Bonded PCAP Solutions of Most Popular Display Sizes to Help Support Customer Design goals
- Custom Assembly Drawings to Document All Aspects of the Kyocera Value Add Integration
- AQL Level Incoming Inspection on All Sub-Components as well as a Pre-Ship Audit Prior to Each Shipment

