

Display solutions for outdoor applications by DATA MODUL

Outdoor devices are very often exposed to rough and sometimes even extreme environmental conditions. Direct sunlight, wide temperature ranges and also vandalism are only some of them. A reliable and robust display solution at an affordable price requires expertise and a strong focus on quality aspects. We offer display solutions for such applications consisting of a huge variety suitable TFTs with multiple value-added and tailor-made options. Input devices such as PCAP sensors or 3D gesture control can specifically be tuned for these rough applications. With customer specific cover glasses and mechanical housing, the system will provide perfect protection for changing environmental conditions as well as vandalism.

Applications

- > Digital Signage & advertisement
- > Electronic vehicle chargers
- > Vending machines (parking meters,...)
- > Marine & military devices
- > Passenger information systems (bus, train,...)
- > Agriculture & construction machineries
- > Outdoor sales kiosks

Technologies

- > Reflective or blanview LCDs
- > Transmissive LCDs
- > Transflective LCDs
- > ePaper
- > Glass based PCAP sensor technologies (e.g. SITO)
- > Tempered or laminated safety glasses
- > Full Bonding

Customizing

- > Special filters, adequate illumination and construction optimize displays for a use in direct sunlight
- > Design criteria enhance sunlight readability, temperature and UV stability
- > Specific glass designs with different thicknesses, surface treatments and printing
- > Mechanical adjustments and sealing for harsh environment conditions
- > Input devices such as PCAP sensors or 3D gesture control for high temperature range operation under rain and snow
- > Customized embedded ARM, X86 and LCD controller board driving solutions

Requirements

- > Rugged or rugged+
- > High brightness & sunlight readable
- > Wide temperature range
- > Free standing installations
- > UV protection
- > 24/7 operation
- > Long backlight lifetime
- > Vandal-proof and high protection
- > No reflection
- > Conformal coating
- > Reliable industrial grade solutions

