

FlatFrog F-Series Multi Touch Module E-TM23F / 42F / 55F / 65F



APPLICATIONS

AIO PCs, Gaming, Hospitality, Medical, Interactive Monitors, Touch Tables, Interactive Digital Signage, Education and Collaboration.



FlatFrog Touch Module For Integration with LCD Panels

- ✓ Ultra thin, edge-to-edge design
- ✓ Perfect optical clarity
- ✓ Finger, pen and glove
- ✓ Unique >1000 levels pressure detection

Touch module includes touch sensor PCB, a touch controller board and high transmissivity anti-fingerprint treated cover glass.

The F-Series InGlass™ technology offers a unique combination of multi-touch-pen-glove and over 1000 pressure levels on a flush edge-to-edge design. InGlass™ technology enables a perfect viewing experience since it has no sensor grid obstructing the visual clarity.

The remarkable multi-touch touch-pen-glove-pressure performance of the F-Series combined with perfect clarity and flat edge design makes it exceptionally suited for AIO PCs, Gaming, Hospitality, Medical, Interactive Monitors, Touch Tables, Interactive Digital Signage, Education and Collaboration.

The touch module supports Windows, Android and MacOS.



TECHNICAL SPECIFICATIONS

TOUCH, PEN, GLOVE PERFORMANCE Multiple touches 10 or 40 simultaneous touches Accuracy <2mm (95% of screen), (<1mm @23") Latency <15ms panning, <25ms touch down Reporting rate 100Hz Touch objects Fingers, gloves, soft tip styluses and soft objects are detected – min size 4mm Pressure Detection 10-bit pressure detection		MECHANICAL Cover lens ID concept Edge-to-edge flush design – no bezel LCD panel integration Air-gap bonding Cover lens type Chemically strengthened soda lime Cover lens thickness 3.2mm single glass (1.6MM @23") Light transmission >89% (>91% @23") Haze <0.5% Surface treatment front Anti-fingerprint coating pencil hardness, 8H Surface treatment back Black border Weight including glass 23" 0.85kg, 42" 5.1kg, 55" 8.2kg, 65" 11.6kg	
ELECTRONICS Main board interface Data communication: USB 2.0 Hi-Speed – Dual power supply: VBUS (5V) – VTSF 12V, (24V @55" & 65") Operating current 5V (0.5A max) 12V / 1.25A max, (24V / 1.05A max @55" & 65") Touch interface USB HID Multi-touch		RELIABILITY AND SAFETY Operating conditions 0°C to +60°C Storing conditions -30°C to +70°C Impact resistance Ball drop UL60950: 500g/1.3m (500g/0.5m @23") Impact hammer IEC60065 (0.5J) Compliance RoHS and REACH compliant	
		OPERATING SYSTEMS SUPPORT OS Compatibility Windows 7/8/10, Linux and Android versions with native support for USB HID Multi-touch. MacOS via 3rd party driver (not included)	

SELECTION GUIDE

PART #	SIZE	# OF SIMULTANEOUS TOUCH/PEN	PRESSURE DETECTION
E10-TM23F	23"	10	Yes
E40-TM23F		40	
E10-TM42F	42"	10	
E40-TM42F		40	
E10-TM55F	55"	10	
E40-TM55F		40	
E10-TM65F	65"	10	
E40-TM65F		40	

ABOUT FLATFROG LABORATORIES AB.

FlatFrog is revolutionizing the touch industry with its patented InGlass™ touchscreen technology. FlatFrog's products offer a perfect touch and viewing experience, supporting over 80 touches with more than 1,000 pressure detection levels in a flush, bezel-free design or an incredible precision pen experience. It works with glove and passive or active pen. It supports Windows, Android and Linux. InGlass™ touch is designed for mass production and integration into tablets, PCs and large interactive displays. FlatFrog Laboratories AB is based in Lund, Sweden with offices in Silicon Valley, Taipei and Seoul.