

iBT Series – Continuously integrating advanced, quantified, and proven high-efficiency anti-interference, cognitive, and artificial intelligence technologies into PCAP touchscreen controllers.

The latest AI touch control, built on a foundation of long-term industry validation.



The iB series PCAP touchscreen controllers originated in 2005 from the PM algorithm platform, which is based on high-level organizational parameters. In numerous variable usage environments where other controllers failed, the PM platform excelled with its superior algorithms, resolving users' operational issues. Examples include the special noise in dental chairs, recent on-site noise in certain medical devices, operations under motor conditions in industrial control environments, and other military, commercial, or outdoor environments, completely or significantly solving problems and providing users with reliable operation. Starting in 2015, the team began researching the possibility of applying neural networks to touch control, and five years later completed the iB NN (Neural Network) platform, initiating the development of PCAP touch controllers based on this platform. It features intelligent processing with a dedicated DSP designed by iBLab, which includes the NN core, enabling precise recognition at high speeds. This is a continuation of the technical implementation from its predecessor, the PM platform, capable of handling larger screens at high speed with precise control, while also offering extensibility for other HMI features, such as vibration feedback (iBH), touch force sensing (iBF), and mid-air gestures (iBG), among others. The PM platform continues to provide a highly flexible operating environment for existing customers.

Specifications:

Model	iBT85738Ea	iBT87644Ea	iBT87644Fa	PM1210	PM1310	PM1415	PM1710	PM1711	PM1715	PM6202	PM6300	PM6500
Platform	iB			PM								
Technology	AI PCAP			PM PCAP						PM Resistant		
Screen Size	15"~22"	22"~32"		5"~7.9"	8.4"~15.6"	2.1"~15.6"		15.6"~32"		-	-	-
Panel Process	ITO/METAL MESH			ITO								
No. of Control Channel	95	120	120	39	58	114	120	120	120	4/5/8 WIRE		
Scan Rate	>300			100~180			100~120			>100		
No. of Touch Finger	Multiple									Single		
Frequency-Hopping	>60 types			>20 types						-	-	-
EMS	CS/RS LEVEL III											
USB	V	V	V	V	V	V	V	V	V	V	V	V
UART	V	V	V	V	V	-	V	V	-	-	-	-
I2C	V	V	V	V	V	V	-	V	V	-	-	-
RS232	-	-	V	V	-	-	V	-	-	V	-	V
Production Base	Taiwan											