

FABS-9A/ 9B Series

Series	FABS-9A								FABS-9B							
System																
Processor	Onboard 6th Gen Intel Core i3/ i5								Onboard 8th Gen Intel Core i3/ i5							
System Chipset	SoC															
System Memory	1 x DDR4 SO-DIMM Socket								1 x 260-pin SO-DIMM up to 32GB DDR4 2400MHz							
External I/O																
USB	2 x USB 3.0 Type A								4 x USB 3.0 Type A							
Serial/Parallel	1 x RS-232/422/485 DB-9, default RS-232 (COM1) 1 x RS-232 DB-9 (COM2)								1 x DB-9 connector, including: * 1 x RS-232(RTS, Rx, Tx, CTS), pin1 RTS/5V/12V selectable via jumper (COM1) * 1 x RS-232(Tx, Rx)/422/485(COM2) by Y Cable							
LAN	2 x GbE LAN RJ-45															
DP	-								1 x DP							
Audio	1 x Line-out															
Power Connector	1 x 3-pin Terminal Block Connector, 1 x 2-pin Power Switch Connector															
Storage Space																
Storage	1 x 2.5" SATA HDD space (Easily Accessible)								1 x M.2 M-Key slot; (Support PCIe/SATA3; 2242/2280, Default 2242)							
Expansion																
Onboard Expansion Bus	1 x Mini-PCIe (full size)								1 x Mini-PCIe slot (full size) 1 x Nano SIM card holder							
Model	FABS-912A / 912B		FABS-915A / 915B		FABS-916A / 916B		FABS-917A / 917B		FABS-918A / 918B		FABS-919A / 919B		FABS-921A / 921B			
Display																
Display Type	12.1" TFT-LCD		15" TFT-LCD		15.6" TFT-LCD		17" TFT-LCD		18.5" TFT-LCD		19" TFT-LCD		21.5" TFT-LCD			
Max. Resolution	800 x 600 1024 x 768		1024 x 768		1366 x 768 1920 x 1080		1280 x 1024		1366 x 768 1920 x 1080		1280 x 1024		1920 x 1080			
Max. Color	16.7M	16.2M	16.2M	16.7M	16.7M		16.2M	16.7M	16.7M		16.7M		16.7M			
Luminance (cd/m²)	450/500	1000	300	1000	400/500	1000	350	1000	300/350	1000	350	1000	250	1000		
Touch Screen																
Type	Projected Capacitive Touch/ Resistive Touch															
Light Transmission (%)	Projected Capacitive Touch: 90% / Resistive Touch: 80%															
Power																
Power Input	DC 9~36V															
Mechanical																
Construction	SUS304 Stainless Steel Front Bezel & Aluminum Back Cover (SUS316L for option)															
IP Rating	IP66/IP69K Compliant Front Bezel															
Mounting	Panel Mount, VESA Mount 100 x 100															
Dimension (mm)	331 x 257 x 52		422 x 322 x 54.1		424 x 289.5 x 58.1		449.4 x 358.4 x 63.8		510 x 325 x 63.7		485 x 398 x 63.8		573.8 x 378.8 x 59.8			
Enviroment																
Operating Temperature (°C)	0~50°C / -20~60°C (option)													0~50°C		
Storage Temperature (°C)	-30~70°C															
Storage Humidity	10 to 90%@ 40°C, non-condensing								10 to 95%@ 40°C, non-condensing							
Certification	CE / FCC Class A / EN 1672-2 Compliant for P Model (optional)															
OS Support	Windows 10 IoT								Windows 10 IoT, Windows 11 IoT							



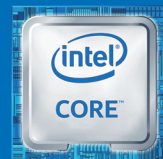
FABS-8/ 8B Series

Series	FABS-8B																	
System																		
Processor	Onboard Intel Celeron J6412																	
System Chipset	SoC																	
System Memory	1 x 260-pin SO-DIMM up to 32GB DDR4 3200MHz																	
I/O Port																		
USB	2 x USB 3.2 Gen2 type A 2 x USB 2.0 type A																	
Serial/Parallel	1 x RS-232/422/485 (Default RS232; select via BIOS)																	
LAN	2.5 x GbE LAN RJ-45																	
DP	1 x DP, support DP++																	
Audio	1 x Line Out																	
Power Connector	1 x 3-pin Terminal Block Connector, 1 x 2-pin Power Switch Connector																	
Storage Space																		
Storage	1 x M.2 B-Key slot; (Support SATA3; 2242)																	
Expansion																		
Onboard Expansion Bus	1 x Mini-PCIe slot (full size) 1 x M.2 E-key 1 x Nano SIM card holder																	
Model	FABS-807B	FABS-810B		FABS-812B	FABS-815B		FABS-816B	FABS-817B		FABS-818B		FABS-819B		FABS-821B				
Display																		
Display Type	7" TFT-LCD	10.1" TFT-LCD		12.1" TFT-LCD		15" TFT-LCD		15.6" TFT-LCD		17" TFT-LCD		18.5" TFT-LCD		19" TFT-LCD		21.5" TFT-LCD		
Max. Resolution	800 x 480	1280 x 800		800 x 600 1024 x 768		1024 x 768		1366 x 768 1920 x 1080		1280 x 1024		1366 x 768 1920 x 1080		1280 x 1024		1920 x 1080		
Max. Color	262K	16.7M	16.2M	16.7M	16.2M	16.2M	16.7M	16.7M		16.2M	16.7M	16.7M		16.7M		16.7M		
Luminance (cd/m²)	350	1000	350	1000	450 500	1000	300	1000	400 500	1000	350	1000	300 350	1000	350	1000	250	1000
Touch Screen																		
Type	Projected Capacitive Touch/ Resistive Touch																	
Light Transmission (%)	Projected Capacitive Touch: 90% / Resistive Touch: 80%																	
Power																		
Power Input	DC 9~36V																	
Mechanical																		
Construction	SUS304 Stainless Steel Front Bezel & Aluminum Back Cover (SUS316L for option)																	
IP Rating	IP66/IP69K Compliant Front Bezel																	
Mounting	Panel Mount, VESA Mount 100 x 100																	
Dimension (mm)	217 x 163 x 40	296 x 200 x 46.9		331 x 257 x 52		422 x 322 x 54.1		424 x 289.5 x 58.1		449.4 x 358.4 x 63.8		510 x 325 x 63.7		485 x 398 x 63.8		573.8 x 378.8 x 59.8		
Enviroment																		
Operating Temperature	0~50℃ / -20~60℃ (option)															0~50℃		
Storage Temperature	-30~70℃																	
Storage Humidity	10 to 95%@ 40℃, non-condensing																	
Certification	CE/FCC Class B/ EN 1672-2 for P Model (for option)																	
OS Support	Windows 10 IoT, Windows 11																	



FABS Series

In food and beverage automation process, one of the most critical challenges is ensuring complete hygiene at all steps in the process. Also, APLEX considers hygienically optimized design as a top priority in processing equipment and gives a complete solution. We implement a safety and hygienic design HMI with SUS304/316 grade stainless steel; IP66/IP69K rated water and dust proof flat front bezel and EN 1672-2 certification to prevent any containment from manufacturing process. Moreover, FABS Series comes with outstanding processor, completed I/O interface, and gives more alternatives via APLEX expansion cards for upgrading food and beverage industry to the era of Industrial IoT and industry 4.0.



FABS-9A / 9B Series

- 6th Gen Intel Core i3/ i5
- 8th Gen Intel Core i3/ i5
- Projected Capacitive / Resistive Touch

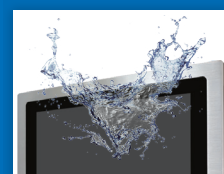


FABS-8B

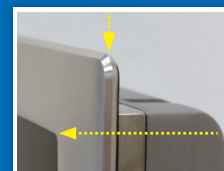
- Intel Celeron J6412 (FABS-8B)
- Projected Capacitive / Resistive Touch



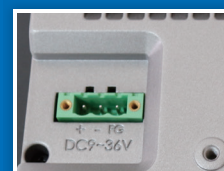
SUS 304/316L Stainless Steel Front Bezel



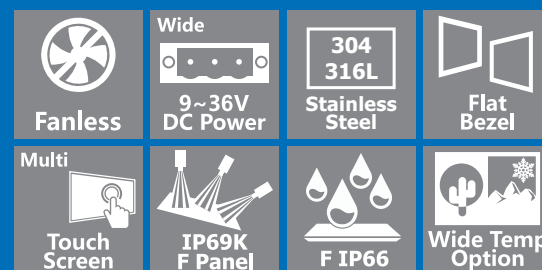
IP66/IP69K Flat Front Bezel



Hygienic Material



DC 9~36V Wide Range Power Input



Build Up the Standard of Food and Beverage Industry

APLEX FABS series is the solution for strict sanitary environment. It is capable of preventing food or other materials from contaminating with sand, dirt, mold or bacteria in the manufacturing process. Also, we devote ourselves to achieve food safety standard with EN 1672-2 certification. APLEX new generation food safety design HMI focuses on optimizing food & beverage, pharmaceutical & consumer packed goods processing operation.

SUS 304 /316 Stainless Steel front bezel

The SUS 304 /316 stainless steel front bezel presents the great resistance to corrosion, cleaner, and chemical agent.



IP66/69K Water-proof

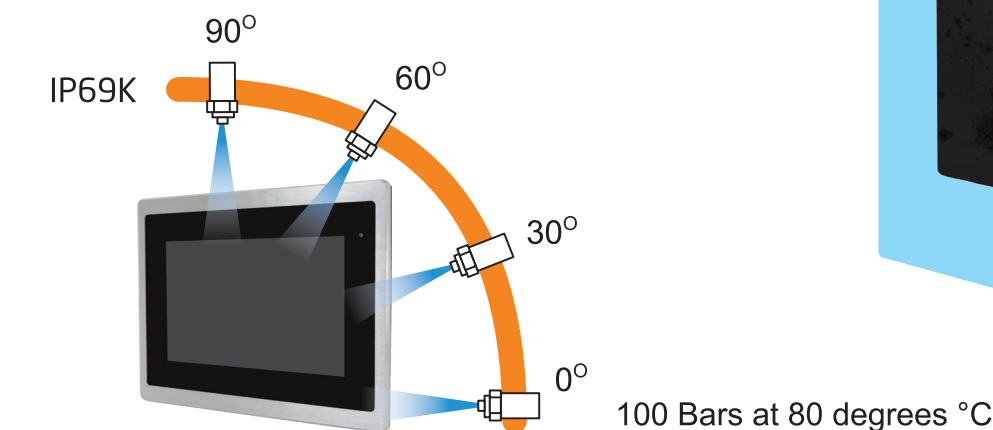
With IP66/69K rated water and dust proof, you can maintain it easily by cleaning with high pressure and temperature water.



- Full-fledged protection from dust
- Protected against close-range high pressure, high temperature sprays down



- Full-fledged protection from dust
- Protected against multi-directional high-pressure water jets



EN 1672-2 Certification

FABS Series comply with the food safety with international food safety grade requirement, EN 1672-2 certification, and DIN 42115 Part 2 for the durability of chemical substances and the sealing material meet FDA 21CFR 177.2600.

Note: Resistive Touch is without EN 1672-2 Certification



APLEX Food Safety Grade HMI FABS Series



High Productivity

FABS-9B series offers excellent computing ability and is powered by Intel 8th Core i3/i5 processor. Also, the great graphic experience helps display complex visual information.



Internet Connectivity

- Optional Wi-Fi/BT and 4G/LTE Module



TB-528 Expansion I/O Boards

TB-528 Series I/O boards provide various I/O selections.

Model	FABS-8B	FABS-9A/9B	Model	FABS-8B	FABS-9A/9B
TB-528U4	•	•	TB-528C2ME1	•	•
TB-528U4ME1	•	•	TB-528C2I	•	•
TB-528C1U2	•	•	TB-528CAN2	•	•
TB-528C1U2P1	•	•	TB-528E1U2	•	•
TB-528C2	•	•	TB528E1U2UPOE	FABS-912A/ 915A/ 916A FABS-912B	

* FABS-8B: Either TB-528 series or speaker can be installed in HMI
 * FABS-807B doesn't support TB-528 series I/O boards *FABS-810B doesn't support TB-528C1U2P1
 * FABS-912A, 916A/ FABS-912B is only allowed to build in either I/O board TB-528 series or backup battery
 * FABS-915A is only allowed to build in either TB-528 PoE series or backup battery
 * PoE Limitation: CPU turbo off, rear I/O no loading, 70% LED backlight, PSE cable length <50m