EXPERT SBC MULTITOUCH

FORSIS®
Die Marke für Industrie PCs

In addition to the EXPERT SBC series with analog resistive touch screen, FORSIS also offers a PCAP multi-touch variant for applications with large visualization requirements or wherever applications can be operated with gesture control.

The EXPERT SBC MT is only available in LCD format 16: 9 and currently three LCD diagonals.

The visualization and simple operation are in the foreground with these devices, which is why the smallest LCD diagonal is 18.5", 21.5" and 24".

The FORSIS EXPERT series is exactly right where the most extreme operating conditions prevail. Protection class IP65 is required here as a direct necessity for the entire detection point. A higher protection class is of course possible. In addition to the tightness of the devices, compliance with hygiene standards and the possibility of using them in an extended temperature range are required. In particular, these are the industries:

■ Food processing craft,
■ Food industry,
■ Pharmaceutical manufacturers and the pharmaceutical industry.

However, the decision criterion is always where and how the cable is routed on the device - in this case this is done on the rear of the device. The device is characterized by its extremely slim design with a depth of just 90 mm. Nevertheless, the 230V AC power supply is integrated.

Key Points

■ Cable feed from behind into the cassette
■ Direct mounting on stainless steel support tube systems, with internal cable routing
■ Degree of protection [EN60529] IP69K on the front and connection side depending on the interface protection
■ Cable feed protected by various covers such as ICOTEK or PG
■ Low housing depth of only 90 mm
■ Particularly suitable for hygiene-sensitive areas such as food and pharmaceuticals
■ Housing material V2A, 1.4305 or optionally V4A brushed stainless steel
■ No holes or edges at the front or all around
■ Extremely compact and vibration-proof design
■ Approvals according to CE, FCC and a hygiene certificate
■ Temperature range from -10 ° C to 50 ° C
■ Mounting options on the side of the housing for table mounting or wall mounting
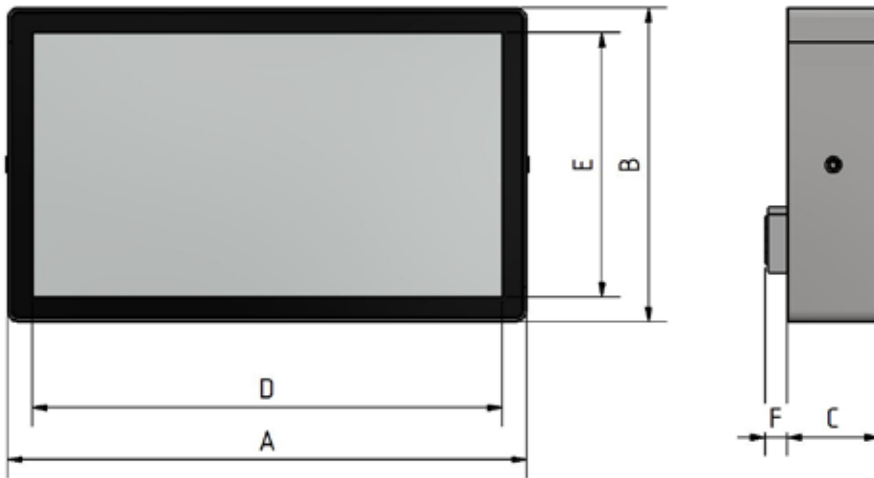■ Integrated power supply 230V AC / power: 65W / approvals: CE, CSA, UL

LEBENSMITTEL

Product information

EXPERT SBC Series MULTITOUCH Variant

Technical features

Measures and weight

Information on the dimensions in mm
to the weight in kg

EXPERT SBC MT	Overall dimensions			Active touch field		Connection	Weight
	A - Width	B - Height	C - Depth	D - Width	E - Height	F	
1850	453	274	80	413	233	30	9
2150	525	313	80	477	268	30	12
2400	580	347	80	530	302	30	15

Mainboard and CPU variants

Type EXPERT SBC MT		1850	2150	2400
LCD diagonal / format / resolution		18,5" / 16:9 / FHD	21,5" / 16:9 / FHD	24" / 16:9 / FHD
Touchscreen / interfaces / IP protection class		capacitive Multitouch / USB / IP67		

CPU INTEL® Celeron© 6305E TGL		■	
CPU INTEL® I3© 1115G4E TGL		■	
CPU INTEL® I5© 1145G7E TGL	TIGER LAKE	■	
UEFI BIOS Support / TPM2.0		■ / ■	
RAM / max. RAM / SSD MSATA M.2		8 GB / 32 GB / 128 GB	
USB 3.1 Gen.2 / LAN		4x / 1x 1Gbit und 1x2,5 Gbit	
optional interface: serial RS232 / WLAN-BT		2x / 1x	

Product information

Technical features

Touch screen technology and front area

PCAP MultiTouch - optimal ratio between space and operation

The attention to detail is evident in the workmanship of the front.
The smooth, gapless surface offers no point of attack for contamination. Extensions are always possible. See for yourself.
The degree of protection achieved is IP69.
One can be divided as to how it is possible to work with glass surfaces directly in the food environment. Ultimately, it is about the function of gesture control or hygiene. The issue of broken glass can be avoided by using a protective film on the front, but then you have to deal with the hygiene issue again.

Please note: The distance between the active touch screen surface and the outer edge of the device is extremely small. Thus, the overall dimensions of the housing have been reduced to the essentials and you get an optimal ratio between space requirements and usage.

Connection and cable deployment

Cable outlet - connector
All connection cables of the device are led out on the back.
The plugs are protected by the internal cassette. The connectors are protected by the following cover plates.

Cable execution with IP65 protection class without cable work
When commissioning the devices, the situation very often arises with the cabling that pre-assembled cables, such as those from keyboards and scanners, have to be led through PG screw connections in order to achieve a degree of protection according to IP65. This means cutting off, driving through and soldering.
As an alternative to the PG screw connection, FORSIS offers a press seal, which enables cables to be carried out easily.
Degree of protection achieved: IP65
The providers here are, for example, RITTAL or ICOTEK.

Technical features - more options

WLAN

When using the FORSIS EXPERT series with WLAN we use a commercially available rod antennas. The flat roof mounting antenna has decisive advantages:

- It is inconspicuous and therefore not a target of damage
- The planar antenna is absolutely waterproof when installed - IP69
- Its diameter is 80 mm and a bore of 16.2 mm is sufficient
- It is always possible to retrofit existing devices
- The antenna is flame retardant according to ECE-R 118

Consistency in all areas

This means that the accessory components must also be adapted to the environmental conditions of the respective place of use. The brackets for the devices in their different lengths (stand or wall bracket) are also made entirely of stainless steel. The same goes for the handles.

Function button

Freely assignable function buttons can also be built into the EXPERT SBC.
Of course, always everything with protection class IP65.
Up to eight buttons are possible. These can be assigned completely freely.

Contactless reader RFID reader - identify the employee

An RFID reader can be integrated directly in the device. The contactless reading processes are offered: LEGIC © (advant), hitag © and mifare © (DESFire).
The position of the RFID reader can be coordinated with the customer based on the location or ergonomics. It is common on the underside of the device, but it is also possible to the side. See first picture.

Integrated barcode reader - free-hand reading even in the food sector

The accessory components must also be adapted to the environmental conditions of the respective place of use. It is therefore possible to install additional barcode readers in almost all FORSIS devices.
This is where normal barcode readers often reach their limits due to their protection class. However, the problem with the charging and transfer station arises here again.
The direct integration of a 2D barcode reading head into the EXPERT SBC series solves these problems. No additional protective measures are required for the barcode reader. The voltage connection is solved via USB, as is the direct data transfer. But the big advantage is that you have both hands free for your work. The best thing to do is to try it out for yourself.