



The EXPERT SBC series from FORSIS GmbH opens up areas of application in which feedback stations work or are necessary under the most extreme operating conditions.

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.

## TouchScreenTechnology

Analog resistive or PCAP multitouch?

First of all - both touch technologies are justified and have become the standard medium for data entry in production. Depending on the application environment and industry, we at FORSIS make a distinction in order to provide the customer with the best possible advantage.

In the food processing industry and the food trade, we therefore prefer to work with analog resistive technology for our stainless steel PCs. The reason:

If the multi-touch glass surface is damaged, glass splinters can occur. This is impossible with analog resistive touch.

## Cable feed and connection

Another important decision criterion for a recording device in the food sector is where and how the cables are installed on the device. With the EXPERT SBC series, this is done on the back of the device. The other device series can also be connected from below. See EXPERT SE / BS.

- Cable feed from behind into the cassette
- Cable feed protected by various covers such as ICOTEK, RITTAL, PG

## Other important key points:

- Degree of protection [EN60529] IP67 on the front and connection side depending on the interface protection
- Low housing depth of only 100 mm
- Particularly suitable for hygiene-sensitive areas such as food and pharma
- 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
- Likewise, direct mounting on stainless steel support tube systems, with internal cable routing
- Integrated power supply 230V AC / power: 65W / approvals: CE, CSA, UL



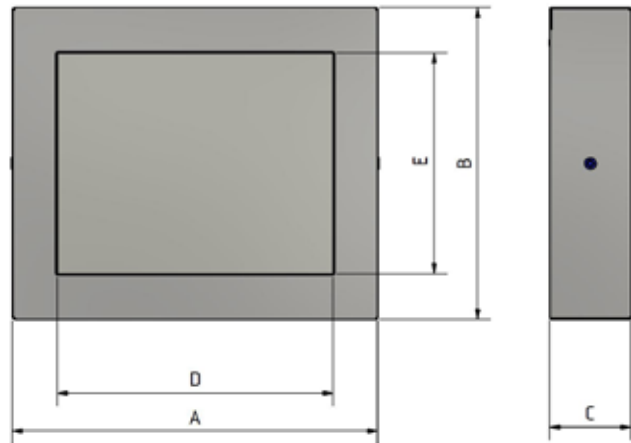
# Product information

## EXPERT SBC Series

# Technical features

## Measures and weight

Information on the dimensions in mm  
to the weight in kg



EXPERT SBC	Overall dimensions			Active touch field		Weight
	A - Width	B - Height	C - Depth	D - Width	E - Height	
<b>1500</b>	400	325	100	312	234	7,5
<b>1700</b>	450	385	100	342	275	9
<b>1900</b>	480	415	100	383	308	11,5
<b>2150</b>	525	347	80	477	268	13

## Mainboard and CPU variants

		<b>1500</b>	<b>1700</b>	<b>1900</b>	<b>2150</b>
LCD diagonal / format		15" / 4:3	17" / 4:3	19" / 4:3	21,5" / 16:9
Resolution		XGA	SXGA	SXGA	FHD
Touchscreen / interfaces / IP protection class		Analog resistive touch screen/ USB / IP67			

CPU INTEL® Celeron® 6305E TGL	<b>TIGER LAKE</b>	■
CPU INTEL® I3® 1115G4E TGL		■
CPU INTEL® I5® 1145G7E TGL		■
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



### Analog resistive touch screen with protective glass effect

Features of the stainless steel PCs with resistive touch technology

- Single Touch
- Can be operated with gloves, pens, etc.
- Calibration-proof and insensitive to surface moisture
- The front window is covered with plastic film, which is an integral part of the touchscreen creates a laminated glass effect, i.e. no broken glass



### Contactless readers and function buttons

A RFID reader can be integrated directly in the device.

The contactless reading processes

- LEGIC © (advant),
- hitag © and mifare © and
- (DESFire) are offered.

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.

## 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

You determine the type of cable entry. Products from the companies

- RITTAL (SDR),
  - ICOTEC,
  - Pflitsch and of course the
  - classic PG screw
- connection are offered.



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

# Technical features

## More options



When using the FORSIS EXPERT series, our MIMO standard antenna with IP65 protection class or commercially available rod antennas are sometimes not sufficient.

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.



### 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. The exception is certainly the PM9501 from DATALOGIC or similar products. 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.



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