

# > PRIVA BLUE ID SX100



The Priva Blue ID SX100 is a robust and low-maintenance industrial PC suitable for various applications. The SX100 is suitable for DIN rail mounting in a control panel.

## Characteristics

- robust and low-maintenance
- DIN rail mounting in control panel
- complete with pre-installed operating system
- suitable for various applications

## Robust and low-maintenance

The SX100 is a compact and robust hardware platform with low power consumption, specially developed for industrial environments. The SX100 is a Single Board Computer with a Solid State Disk (SSD); it has a long service life and does not contain a fan.

The SX100 is therefore ideal for mounting in a sealed control panel. After a power failure, the SX100 will restart itself. After the installation of the applications, a watchdog monitors the correct functioning of the SX100 and, if necessary, launches processes or applications. This guarantees the optimum availability of the applications installed on the SX100 and minimises the need for maintenance on site.

## DIN rail mounting

The hardware-unit can be mounted on a DIN rail with the supplied mounting plate and DIN rail clip. The ports will then be available at the front. The hardware-unit can be positioned horizontally or vertically on the DIN rail.

## Pre-installed operating system

The SX100 is supplied with a pre-installed operating system (Windows Embedded Standard 7). This allows software for applications to be installed immediately.

## Priva Blue ID SX100 applications

Priva Blue ID SX100 supports the following applications:

- historical data for **Top Control 8**

Anti-virus software may also be installed.

## Top Control 8 historical data

The SX100 supports historical data for **Top Control 8**.

For the purposes of historical data, the following **Top Control 8** applications are installed:

- TC History
- TC History Proxy
- TC LAN Manager

TC History saves data, such as tables, graphs and messages from one or more projects and/or controllers, in an MS SQL Server on the hard disk. The saved data can be retrieved via TC LAN Manager or TC History Proxy.

The use of TC History requires a dongle .

## Dongle required

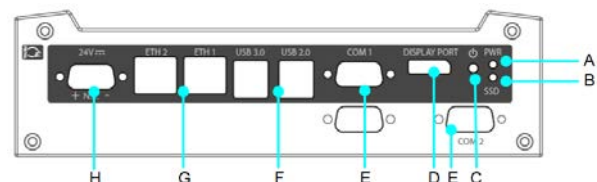
The use of the Top Control applications requires a dongle with licences for TC History. The dongle is not supplied and must be purchased separately via the Priva Partner.

Note: a local hardware dongle cannot be found via a remote desktop connection.

Instead of a hardware dongle, you can also opt to use a software dongle. For information, please contact your Priva Partner.

## Components

All functions and indications are on the front.

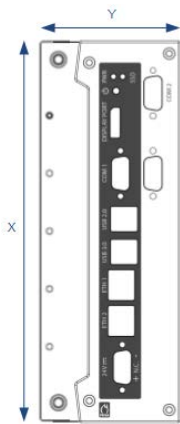


## Legend

A	LED for supply voltage
B	LED for SSD activity
C	on/off button (recessed)
D	DisplayPort for monitor
E	COM port (2x RS232)
F	USB ports (2x USB 3.0, 2x USB 2.0)
G	LAN ports (2x RJ45, 10/100/1000Mbps)
H	connection for DC supply voltage

## Priva Blue ID SX100 specifications

General	
Article description	Priva Blue ID SX100
Article number	5011000
Operating system	Windows Embedded Standard 7 (32-bit version)
Dimensions	210 x 65 x 140 mm (8.27 x 2.56 x 5.51 inch)
Weight	2.5 kilogram
Dimensions of mounting plate (excluding fixing bolts) (XY)	210 x 75 mm (8.27 x 0.30 inch)
Maximum power consumption	19 W
MTBF	158.137 hours (in accordance with MIL-HDBK-217 FN2)
Mounting / positioning	<ul style="list-style-type: none"> <li>horizontally or vertically, can be clicked onto a DIN rail using the supplied mounting plate and DIN clip</li> <li>on a table by means of adhesive rubber feet</li> </ul>
Housing material	aluminium
Mounting plate material	aluminium





Dimensions including mounting plate

Processor	
Processor	Intel Atom D2550 (dual core)
Clock frequency	1.86 GHz
Working memory	2 GB DDR3 1066 MHz
Storage memory	60 GB SSD

Connections	
Power supply	10.8 ... 28.8 VDC
Graphics	DisplayPort with maximum resolution 1920 x 1200
Ethernet	2x RJ45 (10/100/1000 Mbps)
Serial	2x RS232
USB	2x USB 3.0 2x USB 2.0

Environment	
Permitted temperature inside control panel during normal operation	0 ... 50 °C
Permitted temperature during transport and storage	-40 ... 85 °C
Permitted relative ambient humidity	95% (at 40°C, non-condensing)
Shock and vibration resistance (working system)	Shock resistance: IEC 60068-2-27 half-sine 11 ms 15 g Vibration resistance: IEC 60068-2-6 10 - 500 Hz, 2 G

Legislation and standards		
Canada / USA		<ul style="list-style-type: none"> <li>UL 60950-1 (information technology equipment)</li> <li>CSA C22.2 No 60950-1 (information technology equipment)</li> </ul>
	EMC	<ul style="list-style-type: none"> <li>47 CFR Part 15, Class A</li> <li>ICES-003, Class A</li> </ul>
Europe		<ul style="list-style-type: none"> <li>General Product Safety Directive 2001/95/EC</li> <li>Low Voltage Directive 2006/95/EC</li> <li>EMC Directive 2004/108/EC: <ul style="list-style-type: none"> <li>EN 61000-6-2:2005 (generic immunity standard)</li> <li>EN 61000-6-4:2007 (generic emission standard)</li> </ul> </li> <li>EN 60950-1:2006 and A11:2009 and A1:2010 (safety for information technology equipment)</li> </ul>

### Supported SX100 applications and additional specifications and limitations

The tables below show the supported applications and additional specifications and limitations for these applications. For the full system specifications for Top Control: see Top Control system requirements datasheet.

Usage	Supported applications
Historical data for Top Control 8	Top Control 8 applications: <ul style="list-style-type: none"> <li>TC History</li> <li>TC History Proxy</li> <li>TC LAN Manager</li> </ul>
Other applications	ESET anti-virus software <sup>1</sup>

<sup>1</sup> Not supplied

Applications	Additional specification or limitation
TC History	MS SQL Server or MS SQL Server Express databases only. MS Access cannot be used for TC History on a Priva Blue ID SX100.

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Your Priva partner:

See [www.priva.com](http://www.priva.com) for contact information of a Priva office or partner for your region.

