SH Blackline

SH10, SH12, SH15 and SH21

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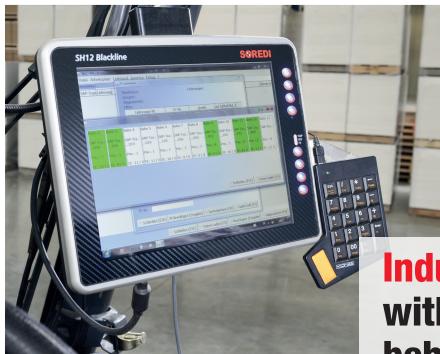

The powerful computer for industry of the series **SH Blackline** in display sizes SH 10, SH 12, SH 15 and SH 21 offer highly-sensitive multi-touch technology behind safety glass.

Industrial PC
with multitouch panel
behind safety glass

The IPC have been developed and produced in-house. They are designed especially for operation in rough environments.

For this reason the **SH Blackline** is made of modern industry-proven components, which ensure reliable performance under extreme conditions.

The strong 4 mm anti-glare bulletproof glass layer above the screen withstands acid, cleaning fluids and disinfectants as well as extreme operational demands. Behind the glass there is a projective capacitive touch panel. A special sensitivity control allows for reliable gesture control – and this even when wearing gloves.

In its slim and light chassis the IPC contains either an energy saving Intel® Dual Core-, Intel® Quad Core-, Intel® Core i3- or Intel® Core i5-processor. By using LED displays they operate without any problems in temperature range from -35°C to +55°C.

The IPC **Blackline** SH10, SH12, SH15 and SH21 are especially suited for the use in a rough production area, commissioning trucks, incoming goods entrance in logistic centers or cold stores.

Highlights

- Multi-Touch operation on the anti-glare glass panel, also when wearing gloves
- Particularly resistant against mechanical impact like shock and vibration
- Good protection against dust and moisture (IP65/67)
- Low temperature usage in a temperature range from -35°C to +55°C
- Display with LED-Backlight, to XGA and 500 cd/m² or Full HD, 1920 x 1080 at 21 Inch
- Intel® Dual Core 2 x 1,46 GHz with 4 GB,
- Intel® Quad Core 4 x 1,91 GHz with 4 GB,
- Intel® Core i3 or Core i5 with 4 / 8 or 16 GB
- Windows® 7 Prof. and Windows® Emb. Standard 7 Windows® 10 or Windows® 10 IoT, Linux
- Motion sensor, programmable unit controller
- Extensive options like integrated LEGIC-reader or UHF reader for identification of pallets

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Technical data SH Blackline SH10, SH12, SH15 und SH21

Chassis		Coated Aluminium, no-fan design
	Mounting	Bracket for stationary and mobile use
	Size	SH10: 278 x 223 x 66 mm, SH12: 325 x 254 x 66 mm, SH15: 380 x 305 x 67 mm,
		SH21: 555 x 360 x 84 mm, Depth by Core i3 and i5 +10 mm
	Weight	SH10: 3,6 kg, SH12: 4,7 kg, SH15: 6,5 kg, SH21: 10,8 kg, Weight Core i3 and i5 + 0,5 kg
Display LED (intern)		SH10: 10,4" Colour-TFT, SVGA 800 x 600, 400 cd/m², 4,8 watt
		SH10: 10,4" Farb-TFT, XGA 1024 x 768, 400 cd/m², 4,8 Watt
		SH12: 12.1" Colour-TFT, XGA 1024 x 768, 500 cd/m², 9,0 watt
		SH12: 12.1" Colour-TFT, XGA 1024 x 768, 1100 cd/m², 12,0 watt
		SH15: 15,0" Colour-TFT, XGA 1024 x 768, 400 cd/m², 9,5 watt
		SH21: 21,5" Colour-TFT, WU XGA 1920 x 1080, 300 cd/m², 19,5 watt
Touch-Screen		Multi-Touch, Projective Capacitive Touch incl. glassfront in carbon design
Architecture	CPU / RAM	Intel® E3826, 2 x 1,46 GHz Dual-Core, 4 GB RAM
		Intel® E3845, 4 x 1,91 GHz Quad-Core, 4 GB RAM
		Intel® Core i3-5010U, 2 x 2,1 GHz, 4 / 8 or 16 GB RAM
		Intel® Core i5-5350U, 2 x 1,8 GHz, 4 or 8 GB RAM
	Sound	On Board: Intel® high definition audio (Intel® HD audio) incl. amplifier
Software	Operating-System	Windows® 7 Professional, Windows® Embedded 7
		Windows® 10 or Windows® 10 IoT, Linux
	Emulation/Browser	VT100, VT220, IBM 5250, Wavelink, Freefloat, Naurtech
Software certified		Topsystem Pick by Voice, Citrix Client, SOTI, SAP Client
Reader		RFID Legic, Mifare, Hitag and UHF
Mass storage	SSD	80 to 600 GB, industrial incl. write-protect
	SDHC	16 to 64 GB
	CFast	16, 32, 64, 128 GB
Interfaces below	RS232	2 x RS 232, COM1 with 5 and COM 2 with 5/12 VDC available for scanner
	USB	1 x USB 3.0, 2 x USB 2.0
	RJ45	Ethernet 10/100/1000 MBit/s on Board
Interfaces on-top	USB	1 x USB, 1 x SDHC
	HDMI	1 x HDMI for monitor connection
	CFast	1 x CFast base
WiFi	WiFi, BT	1 x PCIe Mini Card for WiFi or combimodul WiFi/Bluetooth
	WiFi	IEEE 802.11 a / b / g / n, Bluetooth 4.0
Aerial		Dual aerial or TNC, RP-TNC for offset aerial
Power supply (internal) for	AC voltage	110/230 VAC, 64 W, 50 to 60 Hz
	Direct current	12/24 VDC and 24/48 VDC, 40 W, galvanically isolated,
		voltage lack up to 10 Volts for max. 20 ms bridgeable
		internal USV optional 30 min.
	Power consumption	Typically 18 W to 40 Watt, Green Power EUP 2011 < 0,5 Watt idling cycle
Features	Automatic shut-off	Automatic switchoff via ignition signal or On/Off switch at the front
		Automatic brightness control for the display
		Screenblanking
		Status LED at the front for WiFi and Bluetooth
	Front keys	S1-S4, KEY request, light/dark
Environmental conditions	Protective system	IP65 / IP67 (after approved assembly of the cable cover)
	Test symbol	CE Class A (Europe), FCC (USA), CSA (Canada), CCC (China)
	Temperature ranges	Operation: -35° to +55°C, Storage: -40° to +70°C
	Relative humidity	10% to 90% at 40°C, non-condensing
	Vibration/Shock	Class 5M3 at EN 60721-3-5: 1998 (landcrafts)