

SH Blackline

SH10, SH12, SH15 and SH21

SOREDI
touch systems



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 series **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 and 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 AMD® DualCore-, Intel® DualCore- or Intel® QuadCore-processor. By using LED displays they operate without any problems in temperature range of -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 (IP54 to IP65/67)
- Low temperature usage without heating in a temperature range from -35°C to +55°C
- Display with LED backlight, to Full HD in HD quality, 1920 x 1080 at 21 Zoll
- CPU: AMD® DualCore 2 x 1 GHz with 2 GB , Intel® DualCore 2 x 1,33 GHz with 2 GB or Intel® QuadCore 4 x 1,91 GHz mit 4 GB
- Windows® 7 Prof. and Windows® Emb. Standard 7
- Motion sensor, programmable unit controller
- Extensive options like integrated LEGIC-reader or UHF reader for identification of pallets

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
Display LED (intern)	Weight	SH10: 4,0 kg, SH12: 4,9 kg, SH15: 6,6 kg, SH21: 10,8 kg
		SH10: 10,4" Colour-TFT, SVGA 800 x 600, 400 cd/m ² , 4,8 watt
		SH12: 12.1" Colour-TFT, XGA 1024 x 768, 500 cd/m ² , 9,0 watt
		SH12: 12.1" Colour-TFT, XGA 1024 x 768, 1100 cd/m ² , 12,0 watt
		SH15: 15,0" Colour -TFT, XGA 1024 x 768, 450 cd/m ² , 9,5 watt
		SH21: 21,5" Colour -TFT, Full HD 1920 x 1080, 300 cd/m ² , 19,5 watt
Touch-Screen		Multi-Touch, Projective Capacitive Touch incl. glassfront in carbon design
Architecture	CPU Intel	Intel® DualCore 2 x 1,33 GHz with 2 GB or Intel® QuadCore 4 x 1,91 GHz with 4 GB
	CPU AMD	AMD® DualCore 2 x 1 GHz with 2 GB
	Sound	On Board: high definition audio incl. amplifier
Software	Operating-System	Windows® 7 Professional, Windows® Embedded Standard 7, opt.: WEC 7 and Android
	Emulation/Browser	VT100, VT220, IBM 5250, Citrix Client, Freefloat, Naurtech
Software certified		RFID Legic, Mifare, Hitag and UHF, Pick by Voice, SAP
Mass storage	SSD	SSD 80 to 600 GB, industrial incl. write-protect
	CFast	CFast 32 GB, 64 GB, 128 GB
Interfaces below	RS232	2 x RS 232, incl. 5 or 12 VDC available for scanner
	USB	2 x USB 2.0, 1 x USB 3.0
Internal slots	WLAN, WPAN	1 x PCIeMini Card for WLAN or combi module WLAN/Bluetooth
	USB	1 x USB 2.0
	Sound	1 x Sound
Interfaces on-top	USB	1 x USB
	SDHC	1 x SDHC
	HDMI	1 x HDMI for monitor connection
	CFast	1 x CFast base
Network connection	WLAN	IEEE 802.11 a / b / g / n, Bluetooth 4.0
	RJ45	Ethernet 10/100/1000 MBit/s on board
Aerial		Dual aerial or TNC, RP-TNC for offset aerial
Power supply (internal) for	AC voltage	110/230VAC, 64 W, 50 to 60Hz
	Direct current	12/24 VDC and 24/48 VDC voltage, 40 W, galvanically isolated, voltage lack up to 6V respectively 12V for >5 ms bridgeable
	Power consumption	Typically 18 W to 30 Watt, Green Power EUP 2011 < 0,5 Watt idling cycle
Features	Automatic shut-off	Via signal or On/Off Switch at the front
	Front keys	S1-S4, KEY request, light/dark
Environmental conditions	Protective system	IP54 / IP65 / IP67 (after approved assembly of the cable cover)
	Test symbol	CE/FCC Class A
	Temperature ranges	Operation: -35° to +55°C, Storage: -40° to +70°C
	Rel. humidity	10% to 90% at 40°C, non-condensing
	Vibration/Shock	Class 5M3 at EN 60721-3-5: 1998 (landcrafts)