

# SH15 BLACKLINE / SH21 BLACKLINE



SH21 Blackline



SH15 Blackline

## TWO NEW INDUSTRIAL COMPUTERS

Datalogic is pleased to introduce the Blackline series of industrial computers. The SH15 Blackline computer is a rugged vehicle mount computer (VMC) as well as a fixed mount unit for use in any industrial application. The SH21 Blackline computer is an industrial computer designed for wall or fixed mount industrial applications.

A sealed design tested to IP65/IP67 ensures operation for both computers in the toughest environments. The Capacitive Touch models feature a 3 mm anti-glare armored glass which can be used even when wearing gloves.

## WAREHOUSE MANAGEMENT

The SH15 Blackline computer increases productivity through reduced errors during receiving, put-away, picking and shipping activities.

The SH21 Blackline computer increases productivity by allowing a high level of interaction between operators and machines, giving users the ability to open technical drawings, videos and work steps.

Adding a hand held bar code scanner such as Datalogic's PowerScan™ 9500 scanner to either computer allows for quick data entry and location confirmations.

## VERSATILITY

The SH15 Blackline computer is equipped with an internal isolated DC power supply, ignition sense to automatically control the power in VMC applications, and an AC internal power supply for fixed mount solutions.

The SH21 computer is equipped with a high efficiency AC internal power supply.

Both computers fit different mounting and space constraints, including various brackets and RAM mounts for the vehicle/wall computer along with ABCD or QWERTY external keyboards. A dedicated software keyboard includes a multitude of layouts and languages, adapting either Blackline computer to a minimum footprint for global applications.

## OPERATING SYSTEM AND UTILITIES

Both computers offer a choice of Windows® Embedded Standard 7 or Windows® 10 IoT Enterprise operating systems. Included are various Datalogic Utilities. Compatibility with various MDM's and Terminal Emulation allow both Blackline computers to maximize their return on investment (ROI) through easy deployment, device and maintenance management.

## FEATURES

- Multi-Touch operations on the anti-glare glass panel even when wearing gloves
- Particularly resistant against mechanical impacts like shock and vibration
- Protection against dust and moisture (IP65/IP67)
- Low temperature usage from -20 to 55 °C / -4 to 131 °F
- Display with LED-Backlight:
  - SH15: XGA 1024 x 768 400 cd/m<sup>2</sup>
  - SH21: WUXGA 1920 x 1080 300 cd/m<sup>2</sup>
- Intel® Quad Core 4 x 1.91 GHz with 4 GB RAM
- Intel® Core i5 with 16 GB RAM
- Windows® Embedded Standard 7 Windows 10 IoT
- Motion sensor to trigger screen blanking (SH15 Blackline option)
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRY - APPLICATION

### SH15 Blackline Computer

- Warehouse Management:
  - Inventory
  - Picking
  - Shipping/receiving
  - Put away
  - Cross docking
- Cold storage and harsh outdoor
- Manufacturing Shop Floor
- In-vehicle/truck
- Public Safety

### SH21 Blackline Computer

- Warehouse Management:
  - Shipping/receiving
  - Put away
  - Cross docking
- Cold storage and harsh outdoor
- Manufacturing Shop Floor
  - Show work steps
  - Open technical drawings, pictures and video



# SH15 BLACKLINE / SH21 BLACKLINE TECHNICAL SPECIFICATIONS

## WIRELESS COMMUNICATIONS

<b>Personal Area Network (WPAN)</b>	Bluetooth Wireless Technology 4.0
<b>Local Area Network (WLAN)</b>	Wi-Fi: 802.11a/b/g/n (2.4 GHz and 5 GHz); Cisco CCX v4; Wired Ethernet: 1 x GbE, RJ-45 (bottom)
<b>Antennas</b>	Diversity antennas under top cap

## ELECTRICAL

<b>Backup Battery</b>	Optional backup battery for up to 30 min. runtime; 2,500 mAh @ 10.8 VDC; 27 Wh; Battery charging: 0 to 50 °C / 32 to 122 °F Battery operating: -20 to 50 °C / -4 to 122 °F
<b>Power Supply</b>	SH15 Blackline: Choice of 12-48 VDC isolated or 110/230 VAC; 60/120W internal power supplies SH21 Blackline: 110/230 VAC 60/120 W internal power supplies
<b>Light Indicators</b>	On front bezel

## ENVIRONMENTAL

<b>Humidity</b>	10 to 90% at 40 °C / 104 °F; non-condensing
<b>Temperature</b>	Operating: -20 to 55 °C / -4 to 131 °F (without heater, Capacitive models)
<b>Shock and Vibration</b>	Class 5M3 at EN 60721-3-5: 1998 (landcrafts)
<b>Particulate and Water Sealing</b>	IP65/IP67

## INTERFACES

<b>Interfaces Below</b>	RS-232: 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; RJ-45: Ethernet 10/100/1000 MBit/s on Board
<b>Interfaces on Top</b>	USB: 1 x USB, 1 x SDHC; CFast: 1 x CFast base
<b>Interface Slots</b>	1x Mini-PCIe, half or full size slot (full size used for Wi-Fi); 1x CFast for SSD (Win 7/Win 10)

## PHYSICAL CHARACTERISTICS

<b>Audio</b>	On Board: Intel® high definition audio (Intel® HD audio) including amplifier
<b>Construction</b>	Coated Aluminum , no-fan design
<b>Dimensions</b>	SH15 Blackline: 38.0 x 30.5 x 6.7 cm / 14.9 x 12.0 x 2.6 in; Depth for Core i5 +10 mm SH21 Blackline: 55.5 x 36.0 x 8.4 cm / 21.8 x 14.1 x 3.3 in; Depth for Core i5 +10 mm
<b>Display</b>	SH15 Blackline: 15.0 in Color TFT; XGA 1024 x 768, 400 cd/m <sup>2</sup> , 9.5 watt SH21 Blackline: 21.0 in Color TFT; XGA 1920 x 1080, 300 cd/m <sup>2</sup> , 19.5 watt
<b>Function Buttons</b>	4 programmable keys (S1-S4)
<b>Mounting</b>	Bracket for stationary and mobile use
<b>Screen Blanking</b>	Optional
<b>Speakers</b>	Optional: downward facing, waterproof
<b>Touchscreen</b>	Multi-Touch, Projective Capacitive Touch including glass front in carbon design
<b>Voice Output</b>	1 x HDMI port (top) [Windows 7/10 only]
<b>Voice Support</b>	Wireless via Bluetooth v4
<b>Weight</b>	SH15 Blackline: 6.5 kg / 14.3 lbs Weight Core i5: + 0.5 kg / 1.1 lbs SH21 Blackline: 10.8 kg / 23.8 lbs Weight Core i5: + 0.5 kg / 1.1 lbs

## SAFETY & REGULATORY

<b>Agency Approvals</b>	The product meets necessary safety and regulatory approvals for its intended use.
<b>Certifications</b>	Certified for CE/FCC; RoHS compliant

## SOFTWARE

<b>Certified Software</b>	Topsystem Pick by Voice, SOTI Wavelink
<b>Terminal Emulation/Browser</b>	VT100, VT220, IBM 5250

## SYSTEM

<b>Operating System</b>	Windows Embedded Standard 7 or Windows 10 IoT Enterprise
<b>Processor</b>	Intel Atom E3845 Quad Core 1.91 GHz; Intel i5-5350U Dual Core 1.8 GHz
<b>Memory</b>	RAM: 4 GB (Quad Core); 16 GB (i5)
<b>Storage</b>	Win7/10: 32 GB CFast SSD

## WARRANTY

<b>Warranty</b>	1-Year Factory Warranty
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## ACCESSORIES

### PowerScan 9000 Series



Tethered / Cordless Models  
via cradle and Bluetooth

### Mounting Accessories



94ACC0181 SH Blackline  
Mounting Bracket: 10 degrees  
94ACC0182 SH Blackline  
Mounting Bracket: 130 degrees



94ACC0034 RAM Mount with  
round base for Rhino Vehicle  
Mount Computers

### External Keyboards



95ACC1331 External  
Keyboard, ABCD layout

95ACC1330 External  
Keyboard, QWERTY layout