SH15 BLACKLINE / SH21 BLACKLINE ⊕DATALOGIC

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.

SH21 Blackline

SH15 Blackline

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/m²
  - SH21: WUXGA 1920 x 1080 300 cd/m²
- 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-APPLICATIONS

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

TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

PERSONAL AREA NETWORK (WPAN)	*Bluetooth* Wireless Technology 4.0
LOCAL AREA NETWORK (WLAN)	Wi-Fi: 802.11a/b/g/n (2.4 GHz and 5 GHz); Cisco CCX v4; Wired Ethernet: 1 x GbE, RJ-45 (bottom)
ANTENNAS	Diversity antennas under top cap

ELECTRICAL

BACKUP BATTERY	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
POWER SUPPLY	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
LIGHT INDICATORS	On front bezel

ENVIRONMENTAL

HUMIDITY	10 to 90% at 40 °C / 104 °F; non-condensing
TEMPERATURE	Operating: -20 to 55 °C / -4 to 131 °F (without heater, Capacitive models)
SHOCK & VIBRATION	Class 5M3 at EN 60721-3-5: 1998 (landcrafts)
PARTICULATE AND WATER SEALING	IP65/IP67

INTERFACES

INTERFACES BELOW	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
INTERFACES ON TOP	USB: 1 x USB, 1 x SDHC CFast: 1 x CFast base
INTERFACE SLOTS	1x Mini-PCIe, half or full size slot (full size used for Wi-Fi); 1x CFast for SSD (Win 7/Win 10)

PHYSICAL CHARACTERISTICS

AUDIO	On Board: Intel® high definition audio (Intel® HD audio) including amplifier
CONSTRUCTION	Coated Aluminum , no-fan design
DIMENSIONS	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
DISPLAY	SH15 Blackline: 15.0 in Color TFT; XGA 1024 x 768, 400 cd/m², 9.5 watt SH21 Blackline: 21.0 in Color TFT; XGA 1920 x 1080, 300 cd/m², 19.5 watt
FUNCTION BUTTONS	4 programmable keys (S1-S4)
MOUNTING	Bracket for stationary and mobile use
SCREEN BLANKING	Optional
SPEAKERS	Optional: downward facing, waterproof
TOUCHSCREEN	Multi-Touch, Projective Capacitive Touch including glass front in carbon design
VIDEO OUTPUT	1 x HDMI port (top) [Windows 7/10 only]
VOICE SUPPORT	Wireless via *Bluetooth* v4
WEIGHT	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

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use.
CERTIFICATIONS	Certified for CE/FCC; RoHS compliant

SOFTWARE

CERTIFIED SOFTWARE	Topsystem Pick by Voice, SOTI Wavelink
TERMINAL EMULATION/BROWSER	VT100, VT220, IBM 5250

SYSTEM

OPERATING SYSTEM	Windows Embedded Standard 7 or Windows 10 IoT Enterprise
PROCESSOR	Intel Atom E3845 Quad Core 1.91 GHz; Intel i5-5350U Dual Core 1.8 GHz
MEMORY	RAM: 4 GB (Quad Core); 16 GB (i5)
STORAGE	Win7/10: 32 GB CFast SSD

WARRANTY

WARRANTY	1-Year Factory Warranty

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

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