



Controllers and Gateway Family

QUICK REFERENCE GUIDE

SUPPORT THROUGH THE WEBSITE

Your product Reference Manual including installation procedures is available for download on our website as well as the configuration program.

Datalogic provides several services as well as technical support through its website. Log on to www.datalogic.com and click on the **Industrial Automation** [links](#) for further information:

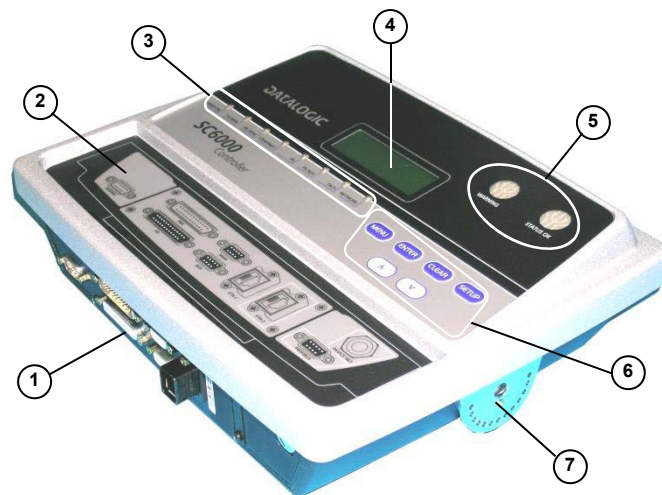
PRODUCTS – FIXED INDUSTRIAL BARCODE READERS

Select your product from the links on the **Fixed Industrial Barcode Readers** page. The product page describes specific Info, Features, Applications, Models, Accessories, and Downloads including documentation, software drivers, and utility programs.

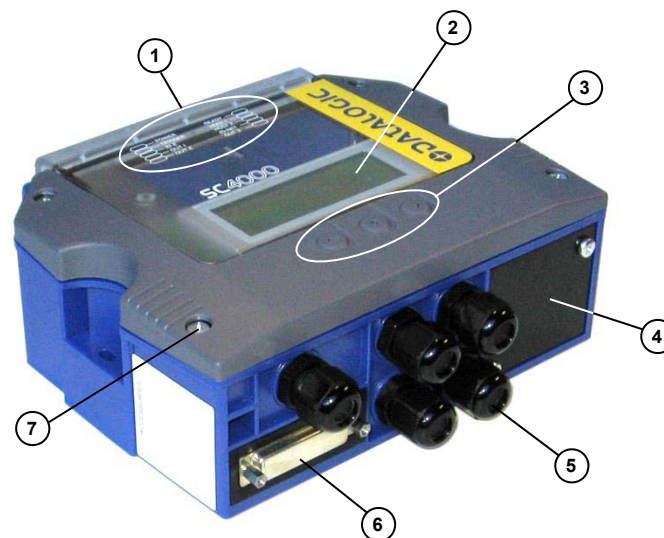
SUPPORT & SERVICES – INDUSTRIAL AUTOMATION

Several links from the **Industrial Automation** list take you to additional services such as: [Service Program](#) which contains Maintenance Agreements and Warranty Extensions; [Repair Centers](#); [On-Line RMA](#) Return Material Authorizations; [Technical Support](#) through email or phone; [Downloads](#) for additional downloads.

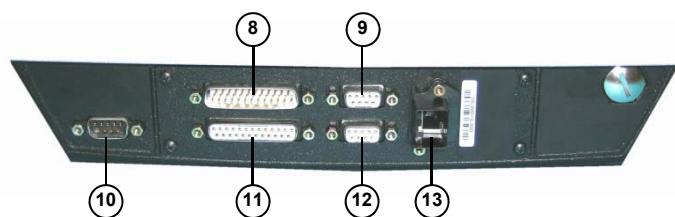
SC6000
Controller Models



SC4000
Controller Models



CBX800
Gateway Models



Standard Models



Profibus Models



DeviceNet Models

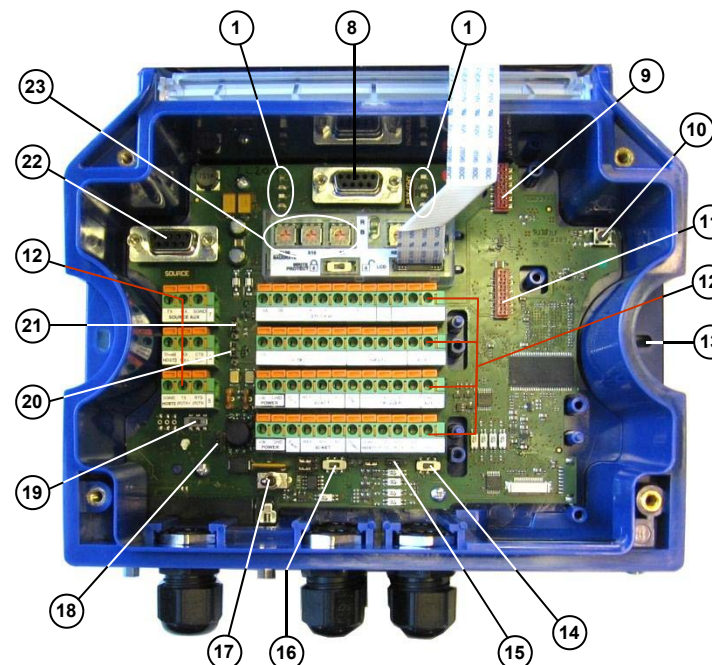


Dual Ethernet Models

General View

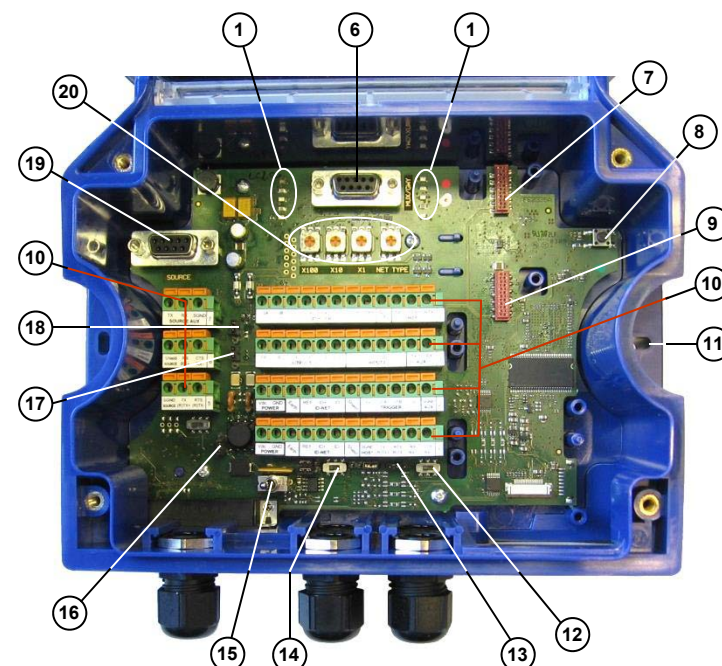
- | | |
|------------------------------------|---------------------------------|
| ① Connector Panel | ⑨ Main Interface Connector |
| ② Connector Panel Legend | ⑩ Modem Connector |
| ③ Power On, Com, I/O, Network LEDs | ⑪ Extended I/O Connector |
| ④ LCD Display | ⑫ Auxiliary Interface Connector |
| ⑤ System Event Status LEDs | ⑬ Ethernet Connector |
| ⑥ Programming Keypad | ⑭ Profibus Connector |
| ⑦ Mounting Bracket | ⑮ DeviceNet Connector |
| ⑧ Power/Net Connector | ⑯ Ethernet Connector |

General View



- ① Indicator LEDs
- ② Display
- ③ 3-Key Keypad
- ④ Host Interface Module Panel
- ⑤ Compression Connectors (5)
- ⑥ IP65 Protection Cover
- ⑦ Cover Screws
- ⑧ Auxiliary Port Connector
- ⑨ IP65 Host Interface Module Connector
- ⑩ Reset to Factory Default Switch
- ⑪ Standard Host Interface Module Connector
- ⑫ Spring Clamp Terminal Blocks
- ⑬ Mounting Holes (2)
- ⑭ Host 1 RS485 HD Termination Resistance Switch
- ⑮ ID-NET/Host 1 Shield Selector
- ⑯ ID-NET Termination Resistance Switch
- ⑰ Power Switch (ON/OFF)
- ⑱ Source Chassis Grounding Selector
- ⑲ Host 2 RS485 HD Termination Resistance Switch
- ⑳ Host 2 Shield Selector
- ㉑ Power Source Selector
- ㉒ Data Source Port Connector
- ㉓ Network Selection Rotary Switches

General View



- ① Indicator LEDs
- ② Cover Screws
- ③ Host Interface Module Panel
- ④ Compression Connectors (5)
- ⑤ 25-pin Device Connector
- ⑥ Auxiliary Port Connector
- ⑦ IP65 Host Interface Module Connector
- ⑧ Reset to Factory Default Switch
- ⑨ Standard Host Interface Module Connector
- ⑩ Spring Clamp Terminal Blocks
- ⑪ Mounting Holes (2)
- ⑫ RS485 HD Termination Resistance Switch
- ⑬ ID-NET/Host Shield Selector
- ⑭ ID-NET Termination Resistance Switch
- ⑮ Power Switch (ON/OFF)
- ⑯ Source Chassis Grounding Selector
- ⑰ Source Shield Selector
- ⑱ Power Source Selector
- ⑲ Data Source Port Connector
- ㉑ Network Selection Rotary Switches

TECHNICAL FEATURES

ELECTRICAL FEATURES	SC6000	SC4000	CBX800
Power Supply Voltage (Vdc) Consumption (A) Max.	10 to 30 0.8 to 0.3	10 to 30 0.8 to 0.5	
Communication Interfaces Main / Host 1 / Host - RS232 - RS485 full-duplex - RS485 half-duplex ¹	1200 to 115200 bit/s 1200 to 115200 bit/s -	1200 to 115200 bit/s 1200 to 115200 bit/s 2400 to 57600	
Auxiliary - RS232	1200 to 115200 bit/s	1200 to 115200 bit/s	1200 to 115200 bit/s
Host 2 / Data Source - RS232 - RS485 full-duplex - RS485 half-duplex ²	-	1200 to 115200 bit/s 1200 to 115200 bit/s 2400 to 57600 bit/s	1200 to 115200 bit/s 1200 to 115200 bit/s -
Modem	1200 to 115200 bit/s	-	-
ID-NET™	-	up to 1Mbaud	up to 1Mbaud
Lonworks	1.25 Mb/s	-	-
Fieldbus ³ - Ethernet - Profibus - DeviceNet	100 Mb/s up to 12 Mb/s up to 500 kb/s	See Reference Manual	See Reference Manual
Inputs:	Opto-coupled and polarity insensitive (see Reference Manual for details)		
Outputs:	Opto-coupled (see Reference Manual for details)		

PHYSICAL FEATURES	SC6000	SC4000	CBX800
Dimensions mm (inch)	320 x 250 x 90 (12.6 x 9.8 x 3.5 in)	193 x 180 x 71 (7.6 x 7.1 x 2.8 in)	193 x 180 x 71 (7.6 x 7.1 x 2.8 in)
Weight grams (ounces)	3300 (116.4)	960 (33.9)	830 (29.3)
Material	Aluminium	Polycarbonate	
ENVIRONMENTAL FEATURES			
Operating Temperature	0 to 50 °C (32 to 122 °F)		
Storage Temperature	-20 to 70 °C (-4 to 158 °F)		
Max. Humidity	90% non-condensing		
Vibration Resistance EN 60068-2-6	14 mm @ 2 to 10 Hz; 1.5 mm @ 13 to 55 Hz; 2 g @ 70 to 200 Hz; 2 hours on each axis		
Bump Resistance EN 60068-2-29	-	30g; 6 ms; 5000 shocks on each axis	
Shock Resistance EN 60068-2-27	30g; 11 ms; 3 shocks on each axis	-	
Protection Class ⁴ EN 60529	IP64	IP65	
USER INTERFACE			
LED Indicators	Power ON, TX Data, RX Data, Ethernet, PS, PS Aux, TACH, Networks, Controller, Scanners, Warning, Status OK	Power On; Ready, Trigger, IN2, OUT1, OUT2, OUT3, Host 1, Host 2, ID-NET	Power On; Ready, Trigger, IN2, OUT1, OUT2, OUT3, Host, Source, ID-NET
LCD Display	4 lines by 20 characters		-
Keypad	6-key	3-key	-

SOFTWARE FEATURES	SC6000	SC4000	CBX500
Operating Modes	ON LINE, SERIAL ON LINE, CONTINUOUS, PACKTRACK	Depends on reader configuration	
Configuration Methods	Windows-based SW (Genius™) via serial or Ethernet		
	Serial Host Mode Programming sequences		
	Keypad/Display controlled Menus		-
Parameter Storage	Permanent memory (extractable Compact Flash card)	Permanent memory (integrated Flash)	

¹ MUX32 Protocol only for backward compatible Multiplexer networks.

² MUX32 Protocol only for backward compatible Multiplexer networks.

³ For SC6000, available fieldbus interface depends on SC6000 model. For SC4000 and CBX800, available fieldbus interface depends on accessory Host Interface Module. See Reference Manual for compatible Fieldbus interface Modules.

⁴ For SC6000, sealed connectors required, including the Harting RJ Industrial® Push Pull Ethernet connector. For SC4000 and CBX800, when compression connectors and reading device or protection cap are correctly connected. If Host Interface Modules are used, only correctly installed IP65 models guarantee IP protection. Protection is not guaranteed when Standard Host Interface Modules are mounted.

PATENTS

These products are covered by one or more of the following patents:

SC6000
Utility patents: EP0851376B1, EP1363228B1, JP4033958B2, US6347740, US6629639

COMPLIANCE

See the relative Controller/Gateway Reference Manual for the Declaration of Conformity.

CE COMPLIANCE

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

FCC COMPLIANCE

Modifications or changes to this equipment without the expressed written approval of Datalogic could void the authority to use the equipment.

This device complies with PART 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

POWER SUPPLY

This product is intended to be installed by Qualified Personnel only.

This product is intended to be connected to a UL Listed Direct Plug-in Power Unit marked LPS or “Class 2”.

SC4000 and CBX800
Total power consumption is given by adding the Controller/Gateway power consumption to that of all the devices powered through it (reading device, P.S., I/O). Refer to the manual of the connected devices for details about minimum/maximum supply voltage and power consumption.
Each Controller/Gateway supports only 1 optional reading device on the 25-pin connector + system accessories.

LEGAL NOTICES

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