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Disclaimer

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PowerScan is a trademark of Datalogic S.p.A. and/or its affiliates, registered in the U.S. All other trademarks and brands are property their respective owners.

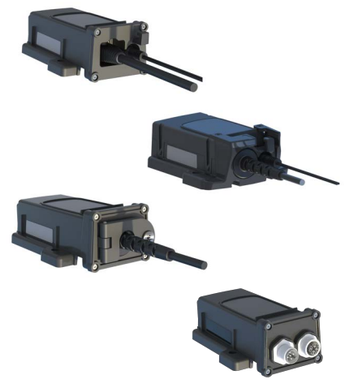
Patents

See www.patents.datalogic.com for patent list.

This product is covered by one or more of the following patents:
Utility patents: EP1873886B1, US7948214, US10915476, US11334735, ZL200780030808.2

CM96XX

Instruction Manual



DATALOGIC

Multi Interface Connection Module

www.datalogic.com

820123307 Rev. H January 2024

USING CM96XX

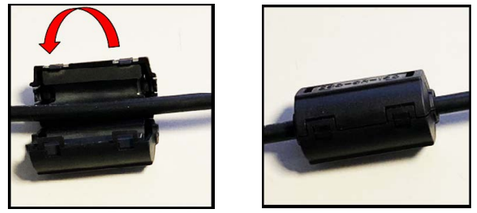
The CM96XX connection module is a modular component of the BC96XX which provides power and communication between the host and the base station.

It is mainly used as a replacement part for the BC96XX Base Station. The CM968X can also be used as an accessory to connect a PD96XX reader to an Ethernet host.

When using the CM9680/CM9681 modules, apply the ferrite provided with the device to the Ethernet cable 5 cm from the box.

The available part numbers are:

- CM9630 CONN Model Multi interface
- CM9631 CONN Model Multi Interface IP65
- CM9680 CONN Model Ethernet/Profinet
- CM9681-N100 Model Ethernet/Profinet IP65
- CM9681-N200 Model Ethernet/EtherNet/IP IP65

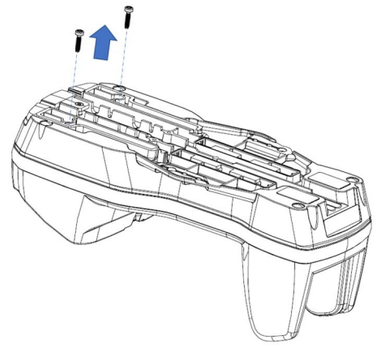


Example of how to mount a ferrite

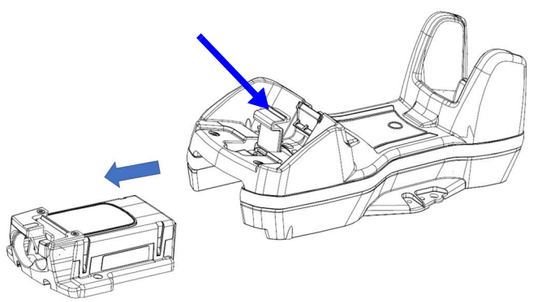
CM96XX REPLACEMENT

To replace a CM96XX connection module in a BC96XX base station follow the steps below:

1. Unscrew the connection module from the cradle.



2. Unlock the lever and remove the connection module from the cradle.



3. Replace the module by inserting it into the cradle, lock the lever and screw the module to the cradle.

For other base station mounting options see the BC96XX Quick Reference Guide or the PowerScan 9600 Family PRG.

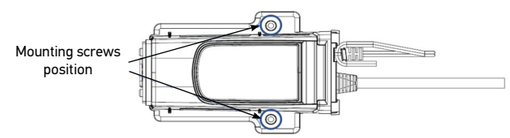
CM968X ACCESSORY FOR PD96XX READERS

The CM968X can be used as an accessory for those who want to use an Ethernet interface with a PD96XX gun.

CM9680

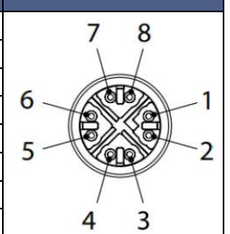
CM9681 - POE CONNECTION

CM9681 - EXTERNAL POWER SUPPLY



CM9681 Power Over Ethernet (PoE) Connector

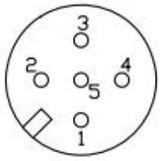
The Ethernet pinout is as follows:

PIN	NAME	DESCRIPTION	
1	TX+	Transmit Data +	
2	TX-	Transmit Data -	
3	RX+	Receive Data +	
4	RX-	Receive Data -	
5	DC1-	Dc power (-)	
6	DC2-	Dc power (-)	
7	DC1+	Dc power (+)	
8	DC2+	Dc power (+)	

M12 X-Coded Female Ethernet Network Connector

Power can be applied to any of the data pairs according to the IEE 802.3af standard for Alternative A (Mid and Endspan) or Alternative B.

CM9681 External Power Connector

3 CONTACTS	
	1 - BROWN 10-30V
	2 - not used (with hole)
	3 - BLUE GND
	4 - BLACK
	5 - not used (with hole)

CM9680/CM9681 Compatible Cables

CABLE	PART NUMBER
PWR-IN CONNECTOR M12 5P F. A-Coded	93A050045
CABLE RS232 2M POT COIL IP67	CAB-559
3-POLE STRAIGHT CABLE 3M	95A251290
3-POLE STRAIGHT CABLE 5M	95A251300
3-POLE STRAIGHT CABLE 10M	95A251340
CAB-ETH-X-RJ ADAPTER FULL GETH-X to RJ45	93A050141
CAB-ETH-X-M01 M12-IP67 GETH-X CAB 1M	93A050122
CAB-ETH-X-M03 M12-IP67 GETH-X CAB 3M	93A050123

CAUTION: Use only the recommended RS232 cables. If you use a cable that is not recommended, do not connect the power supply to the cable.

CAUTION: Use only the recommended Ethernet cables or in alternative only high quality shielded cables.

SELECTING THE INTERFACE

ETHERNET
Select Ethernet Interface

PARAMETER	DEFAULT VALUE
DHCP	Disable
Static IP Address	192.168.187.31
Netmask	255.255.255.0
Gateway	192.168.187.254
Data Socket Port	51000
Device Name	CM968x
Input Data Buffer[a]	128
Output Data Buffer[a]	16

a. Configurable for Profinet, fixed for EtherNet/IP

TECHNICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
Supply Voltage	**CM9630**: Host power 5 VDC +-5% (*) or 10-30 VDC +-5% External power 10-30 VDC +-5% **CM9631**: Host power 5VDC +-5% (*) or 10-30 VDC +-5% **CM9680**: 10-30 VDC +-5% External power 10 -30 VDC +-5% **CM9681**(*): External power 10-30 VDC or PoE (mode A and B) (*) with approved interface cables. **Note**: CM9680 and CM9681 can also be used as separate accessories.
Power Consumption	1.5 A max
Indicators	**CM9680 / CM9681-NXXX**: - BF LED (red/green): network status; - LINK LED (yellow/green): link activity; - SF LED (red/green): module status; - PWR LED (green): power ON (this LED is not visible when installed in the cradle). 
ENVIRONMENTAL CHARACTERISTICS	
Working Temperature	-20° to +50 °C / -4 to +122 °F
Storage Temperature	-40° to +70 °C / -40 to +158 °F
Humidity	90% non condensing
Protection Class	CM9630 and CM9631 can only be used together with the base station BC96XX. Refer to BC96XX Quick Reference Guide for protection class information. CM9680 used alone as an accessory: IP40. CM9681 used alone as an accessory: IP65.

REGULATORY INFORMATION

All models are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.
Any changes or modifications to equipment, not expressly approved by Datalogic could void the user's authority to operate the equipment.

Statement of Agency Compliance

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 that may cause undesired operation.

FCC Class B Compliance Statement

The user is cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Canada Notice

This equipment does not exceed the Class B limits for radio noise emissions as described in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

CAUTION: Do not attempt to open or otherwise service any components in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate laser safety regulations.

Customs Union

The CU conformity certification has been achieved; this allows the Product to bear the Eurasian mark of conformity.

Power Supply

This device is intended to be connected to a UL Listed/CSA Certified computer which supplies power directly to the device or else be supplied by UL Listed/CSA Certified Power Unit marked "Class 2" or LPS power source rated 10-30V minimum 1.5A.

CHINA ROHS TABLE OF RESTRICTED ELEMENTS

CM96

PART		有毒有害物质或元素 Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr(VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
Cable	电 缆	X	O	O	O	O	O
Printed Circuit Board Assy	电路板组	X	O	O	O	O	O
Assembly, Module	光学组件	X	O	O	O	O	O
Power Supply	电源	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

EFUP determined by "Look-up Method" (scanner). 环保使用期限取决于"查表法"(扫描仪)

WEEE STATEMENT

Waste Electrical and Electronic Equipment (WEEE) Statement

English
For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at www.datalogic.com.

Italian
Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web www.datalogic.com.

French
Pour toute information relative à l'élimination des déchets électroniques (WEEE), veuillez consulter le site internet www.datalogic.com.

German
Informationen zur Entsorgung von Elektro- und Elektronik- Altgeräten (WEEE) erhalten Sie auf der Webseite www.datalogic.com.

Spanish
Si desea información acerca de los procedimientos para el desecho de los residuos del equipo eléctrico y electrónico (WEEE), visite la página Web www.datalogic.com.

Portuguese
Para informações sobre a disposição de Sucatagem de Equipamentos Elétricos e Eletrônicos (WEEE -Waste Electrical and Electronic Equipment), consultar o site web www.datalogic.com.

Chinese
有关处理废弃电气电子设备（WEEE) 的信息，请参考 Datalogic 公司的网站 www.datalogic.com。

Japanese
廃電気電子機器 (WEEE) の処理についての関連事項は Datalogic のサイト www.datalogic.com をご参照下さい。

European Declaration of Conformity

Hereby, Datalogic S.r.l. declares that the full text of the European Declaration of Conformity is available at: www.datalogic.com. Select the Support & Service > Downloads > Product Certifications link where you can search for your specific product certification.

UKCA Declaration of Conformity

Hereby, Datalogic S.r.l. declares that the full text of the UKCA Declaration of Conformity is available at: www.datalogic.com. Select the Support & Service >Downloads > Product Certifications link where you can search for your specific product certification.