**OEM Automatic Ltd**
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# ZEBRA FS80 CODE READER

FS80-CM0907C00W
FS80, C-Mount, 9 MP, DPM W/ Fast, 2D, W/ DL OCR, USB and Industrial Protocols, Lens Not Included - Worldwide

- Decoding of both 1D and 2D barcodes
- Can read barcodes in many conditions including damaged codes and codes on device screens
- Adjustable optics and illumination




### PRODUCT DESCRIPTION

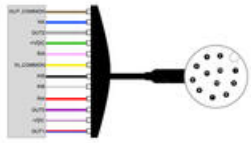
The Zebra FS80 Fixed Industrial Scanner is a high-performance code reader designed for demanding industrial environments that require fast, accurate barcode reading. Equipped with a powerful 2.3 MP image sensor and Zebra's advanced PRZM Intelligent Imaging technology, the FS80 delivers rapid, reliable decoding of both 1D and 2D barcodes, even those that are poorly printed, damaged, or displayed on electronic screens. Its customisable illumination, adjustable optics, and comprehensive decoding algorithms make it suitable for complex use cases involving high-speed production lines or intricate label designs. The FS80 also offers connectivity via USB, Ethernet, and Serial interfaces, and supports Power-over-Ethernet (PoE) for simplified installation. It can be configured using Zebra's Aurora™ software platform, allowing for intuitive setup, remote management, and real-time diagnostics.
The Zebra FS80 is ideal for automated manufacturing, warehouse logistics, and quality assurance systems. Its rugged IP65-rated enclosure protects it from dust and water, making it suitable for harsh industrial environments. With optional features like liquid lens technology for dynamic focus adjustment, the FS80 can handle variable working distances, making it especially useful in assembly lines where products differ in size and placement. Additionally, its fast decode speeds and ability to read multiple codes in a single image enable increased throughput and reduced error rates in automated workflows. The FS80's compact design and flexible mounting options ensure seamless integration into both new and existing automation systems.

# TECHNICAL DATA

| | |
|---|---|
| **12415_Certification - Environment** | EN IEC 63000:2018 |
| **12416_Certification - Electricity** | UL, CSA, IEC 61010 |
| **12417_Certification - EMC** | EN 55011, EN 61326, FCC Part 15 |
| **12418_Dimensions (with lens cap)** | 75 x 120 x 75 mm |
| **12419_Dimensions (without lens cap)** | 75 x 57 x 75 mm |
| **12420_Weight (with lens cap)** | 504 g |
| **12421_Weight (without lens cap)** | 407 g |
| **Focus** | Manual iris |
| **Frame Rate Max** | 40 |
| **Interface out** | One M12 X-Coded 1GbE, One M12-A 12-pin (female) Power & GPIO, One M12-A 12-pin (male) VGA |

| | |
|---|---|
| **Javascript Support** | Yes |
| **Lens Barrel** | C-Mount |
| **Material** | Aluminium |
| **Pixel Size** | 3.2 x 3.2 µm |
| **Size** | 75 x 120 x 75 mm |
| **Software performance** | DPM W/ Fast 2D Barcode Decoder |
| **Storage** | 32 GB |
| **Temperature range** | 0 °C till 45 °C |
| **Type of lens** | Fixed |
| **Type of scanner** | Fixed Scanner |

Digital IO and Power Connector



Ethernet Connector

The Ethernet connector is an M12 (female) 8-pin X-coded connector that provides TCP/IP communication.

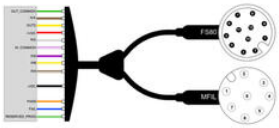


Table: Digital IO and Power Pin-Out Diagram

| Pin Number | Signal Name | Description |
|---|---|---|
| 1 | MDI_1+ | Bidirectional data A+ |
| 2 | MDI_1- | Bidirectional data A- |
| 3 | MDI_2+ | Bidirectional data B+ |
| 4 | MDI_2- | Bidirectional data B- |
| 5 | MDI_4+ | Bidirectional data D+ |
| 6 | MDI_4- | Bidirectional data D- |
| 7 | MDI_3- | Bidirectional data C- |
| 8 | MDI_3+ | Bidirectional data C+ |

Power and IO Y Cable

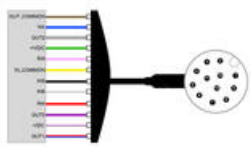
The Power and IO Y cable (CBL-PWR00500-M1210) transmits and receives digital IO signals and provides power to the FS80 (M12-A 12-pin Male) and the Multi-Feature Integrated Light (M12-A 8-Pin Female).




| Flying Leads Color (24 AWG) | Function | 12-Pin A-Coded Male M12 to FS80 | | 8-Pin A-Coded Female M12 to MFIL | |
|---|---|---|---|---|---|
| Green | OUT_COMMON | 1 | Green | 6 | Green |
| Brown | N/A | 2 | Brown | - | |
| Yellow | OUT2 | 3 | Yellow | - | |
| Red | +VDC | 4 | Red | 1 | Red |
| Grey | IN3 | 5 | Grey | - | |
| White/Violet | IN_COMMON | 6 | White/Violet | - | |
| Violet | IN5 | 7 | Violet | - | |
| White/Yellow | IN6 | 8 | White/Yellow | - | |
| White/Brown | IN4 | 9 | White/Brown | - | |
| Black | -VDC | 11 | Black | 8 | Black |
| Orange | PASS | - | - | 7 | White/Orange |
| Blue | FAIL | - | - | 2 | White/Blue |
| White/Green | RESERVED_PROG | - | | 3 | White/Green |

Green must be connected to -VDC to operate the Multi-Feature Integrated Light.

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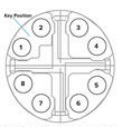
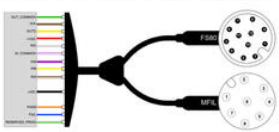


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