

## FS80

FS80-CM0907Z00W

FS80 C-Mount Fixed Industrial Scanner: 9 MP,  
Standard 2D Barcode Decoder, USB and Industrial  
Protocols

- Upplösning: 5-16 Megapixel
- Pixelstorlek: 3.2µm
- Bildhastighet: upp till 42 fps



## PRODUKTBESKRIVNING

FS80 är Zebbras mest avancerade fasta industriella skanner, skapad för logistikkedjans mest krävande miljöer. Med högupplöst sensor och snabb bildbehandling säkerställer FS80 maximal läsbarhet – även i höga hastigheter och på långt avstånd. Tack vare en bred synfält, stor skärpedjup och intelligent belysning kan FS80 ersätta flera traditionella kameror, vilket förenklar installation och minskar kostnader. Med intuitiva Zebra Aurora Focus får du full kontroll, högre precision och ökad produktivitet – varje dag.

## TEKNISK DATA

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Bildfrekvens max     | 40                                                                                        |
| Certifiering - EI    | UL, CSA, IEC 61010                                                                        |
| Certifiering - EMC   | EN 55011, EN 61326, FCC Part 15                                                           |
| Certifiering - Miljö | EN IEC 63000:2018                                                                         |
| Fokus                | Manual iris                                                                               |
| Interface out        | One M12 X-Coded 1GbE, One M12-A 12-pin (female) Power & GPIO, One M12-A 12-pin (male) VGA |
| JavaScript-stöd      | Ja                                                                                        |
| Lagring              | 32 GB                                                                                     |
| Linsfattning         | C-Mount                                                                                   |
| Linstyp              | Fixed                                                                                     |
| Luftfuktighet        | Max 99 % (icke-kondenserande)                                                             |
| Material             | Aluminium                                                                                 |
| Mått (med linslock)  | 75 x 120 x 75 mm                                                                          |

|                       |                             |
|-----------------------|-----------------------------|
| Mått (utan linslock)  | 75 x 57 x 75 mm             |
| PC-utvecklingsverktyg | Aurora Focus                |
| Pixelstorlek          | 3.2 x 3.2 µm                |
| Software performance  | Standard 2D Barcode Decoder |
| Storlek               | 75 x 120 x 75 mm            |
| Strömförbrukning      | 15 W (625 mA @ 24 VDC)      |
| Temperaturområde      | 0 °C till 45 °C             |
| Typ av scanner        | Fixed Scanner               |
| Upplösning            | 9 MP                        |
| Vikt (med linslock)   | 504 g                       |
| Vikt (utan linslock)  | 407 g                       |

#### Digital IO and Power Connector

The digital IO and power connector is an M12 12-pin female connector (M12-CBL-PW0500) that transmits and receives digital IO signals and provides power to your device.

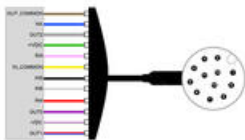


Table: M12-CBL-PW0500 Digital IO and Power Pin-Out Diagram

| Pin Number | Wire Color  | Recommended Signal Name | Description                                                                                                                                                                                                                                         |
|------------|-------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | Brown       | OUT_COMMON              | Open-isolated industrial auxiliary signal (output) common.<br>Supported function: user bit 2 (output 2 of 3).<br>Ensure that OUT_COMMON is connected to the return path when using the F580 with the Multi-Feature Integrated Light.                |
| 2          | White       | OUT2                    | Open-isolated industrial auxiliary signal 2 (output).<br>Supported function: user bit 2 (output 2 of 3).                                                                                                                                            |
| 3          | Green       | -VDC                    | Positive pin of the power provided to your device.<br>This pin must be connected to a +24 V (-10% power supply).                                                                                                                                    |
| 4          | Yellow      | IN_COMMON               | Open-isolated industrial auxiliary signal (input) common.<br>Supported function: Whether you should connect this pin to an electrical return path or a voltage source depends on whether the third-party device is sourcing or sinking the current. |
| 5          | Black       | IN5                     | Open-isolated industrial auxiliary signal 5 (input).                                                                                                                                                                                                |
| 6          | Grey        | IN6                     | M_AUX IO5                                                                                                                                                                                                                                           |
| 7          | Red         | IN4                     | Open-isolated industrial auxiliary signal 4 (input).                                                                                                                                                                                                |
| 8          | Violet      | OUT1                    | Open-isolated industrial auxiliary signal 1 (output).                                                                                                                                                                                               |
| 9          | White/Brown | -VDC                    | Negative pin of the power provided to your Zebra F580.<br>This pin must be connected to the electrical return path.                                                                                                                                 |
| 10         | Black       | OUT1                    | Open-isolated industrial auxiliary signal 1 (output).                                                                                                                                                                                               |
| 11         | Red/Blue    | OUT1                    | Open-isolated industrial auxiliary signal 1 (output).<br>Supported function: user bit 1 (output 2 of 3).                                                                                                                                            |

#### Ethernet Connector

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

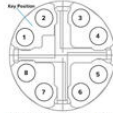
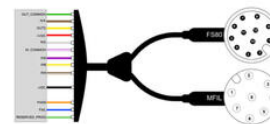


Table: Digital IO and Power Pin-Out Diagram

| 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+ |

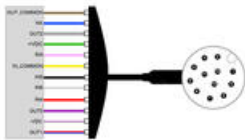
#### Power and IO Y Cable

The Power and IO Y cable (CBL-PW0500-M1210) transmits and receives digital IO signals and provides power to the F580 (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 F580 | 8 Pin A Coded Female M12 to MFL |
|--------------------------------------------------------------------------------|---------------|---------------------------------|---------------------------------|
| Green                                                                          | OUT_COMMON    | 1 Green                         | 6 Green                         |
| Green must be connected to -VDC to operate the Multi-Feature Integrated Light. |               |                                 |                                 |
| 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          | 10 Black                        | 8 Black                         |
| Orange                                                                         | PASS          | -                               | 7 White/Orange                  |
| Blue                                                                           | FAIL          | -                               | 2 White/Blue                    |
| White/Green                                                                    | RESERVED_PROG | -                               | 3 White/Green                   |

The digital I/O and power connector is an MPU I/O pin header connector (MPU I/O) that transmits and receives digital I/O signals and provides power to your device.



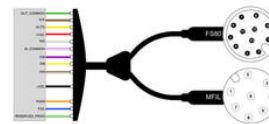
| No. | Fit       | Wiring       | Technical Support                                                                                                                                                                                             | Recommendation                                                                                                                                     |
|-----|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Green     | OUT - COMMON | Open-terminal industrial auxiliary voltage (output) common.                                                                                                                                                   |                                                                                                                                                    |
| 2   |           |              |  <p>Shows that OUT - COMMON is connected to the return path when using the FSR0 with the Multi-Feature Integrated Light.</p> |                                                                                                                                                    |
| 3   | Pink      | NA           | Not supported                                                                                                                                                                                                 |                                                                                                                                                    |
| 4   | White     | OUT2         | Open-terminal industrial auxiliary voltage 2 (output).                                                                                                                                                        |                                                                                                                                                    |
|     |           |              | Supported function: see table 2 (output 2 of 3).                                                                                                                                                              |                                                                                                                                                    |
| 5   | Green     | +VDC         | Positive pole of the power provided to your device.                                                                                                                                                           |                                                                                                                                                    |
|     |           |              |  <p>This pin must be connected to a +24 V or +18V power supply.</p>                                                          |                                                                                                                                                    |
| 6   | Pink      | NE2          | Open-terminal industrial auxiliary voltage 3 (output).                                                                                                                                                        |                                                                                                                                                    |
| 7   | Yellow    | IN - COMMON  | Open-terminal industrial auxiliary voltage (input) common.                                                                                                                                                    |                                                                                                                                                    |
|     |           |              | Supported function: Whether you should connect this pin to an electrical return path or a voltage source depends on whether the third-party device is sourcing or sinking the current.                        |                                                                                                                                                    |
| 8   | Black     | NE5          | Open-terminal industrial auxiliary voltage 5 (output).                                                                                                                                                        |                                                                                                                                                    |
| 9   | Grey      | NA           | Not supported                                                                                                                                                                                                 |                                                                                                                                                    |
| 10  | Blue      | NE4          | Open-terminal industrial auxiliary voltage 4 (output).                                                                                                                                                        |                                                                                                                                                    |
| 11  | Violet    | OUT1         | Open-terminal industrial auxiliary voltage 1 (output).                                                                                                                                                        |                                                                                                                                                    |
| 12  | Grey/Pink | +VDC         | Negative pole of the power provided to your device (FSR0).                                                                                                                                                    |  <p>This pin must be connected to the electrical return path.</p> |
| 13  | Red/White | OUT1         | Open-terminal industrial auxiliary voltage 1 (output).                                                                                                                                                        | Supported function: see table 2 (output 2 of 3).                                                                                                   |

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



|   | Pile Number | Signal Name | Description            |
|---|-------------|-------------|------------------------|
| 1 | MDL_1s      |             | Bi-directional data A+ |
| 2 | MDL_1s      |             | Bi-directional data A- |
| 3 | MDL_2s      |             | Bi-directional data B+ |
| 4 | MDL_2s      |             | Bi-directional data B- |
| 5 | MDL_4s      |             | Bi-directional data D+ |
| 6 | MDL_4s      |             | Bi-directional data D- |
| 7 | MDL_3s      |             | Bi-directional data C- |
| 8 | MDL_3s      |             | Bi-directional data C+ |

The Power and IO Y cable (CBL-PWR00500-M1250) transmits and receives digital IO signals and provides power to the F580 (M12-A 12-pin Male) and the Multi-Feature Integrated Light (M12-A 8-Pin Female).



| Flying Leads Code (28 AMP)                                                          |                                                                                | Position   | 10 Pin & Colored Male Wire in PWB | 6 Pin & Colored Female Wire in MPB |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------|-----------------------------------|------------------------------------|
| Green                                                                               |                                                                                | OUT_COMMON | 1 Green                           | 6 Green                            |
|  | Green must be connected to -VDC to operate the Multi-Feature Integrated Light. |            |                                   |                                    |
| 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                                                                           |            | 10 Black                          | 8 Black                            |
| Orange                                                                              | PASS                                                                           |            | 7 White/Orange                    | -                                  |
| Blue                                                                                | FAIL                                                                           |            | 2 White/Blue                      | -                                  |
| White/Green                                                                         | RESERVED_PROG                                                                  |            | 3 White/Green                     | -                                  |