

SR4210

Panel Mount Receptacle



The power of memory. Secured.

SR4210 receptacles mate with all Datakey SlimLine™, Extended SlimLine, NFX, and RUGGEDrive™ memory tokens (see token data sheets for more information).

As with all Datakey SlimLine token receptacles, this series features corrosion resistant, “gold dot” contacts that perform reliably over a wear life of at least 50,000 insertion/removal cycles. The design employs a wiping mechanism to remove any debris or build-up on the token’s contacts each time the token is inserted or removed. The receptacle includes a detent mechanism that contributes to token retention and gives users tactile and audible confirmation when an inserted token is physically engaged. The token/receptacle system also provides a Last-On/First-Off (LOFO) contact that is used by system designers to detect when a memory token has been inserted or removed (contact ATEK for token detection details for NFX and RUGGEDrive tokens). The SR4210 receptacle is designed for front-panel mounting and is held in place using a metal retainer clip.



Retaining Clip included with each SR4210 Panel Mount Receptacle

| MECHANICAL | |
|-----------------------------------|---|
| Operating Life | 50,000 Insertion/Removal Cycles Min. |
| Insertion Force | 400 gf Min. / 2 kgf Max. |
| Removal Force | 300 gf Min. / 2 kgf Max. |
| Vibration | 15 g (three axes) Non-operating |
| ELECTRICAL | |
| Contact Resistance | Beginning of Life: 100 mΩ |
| | End of Life: 500 mΩ |
| ENVIRONMENTAL | |
| Storage Temperature | -40°C to +100°C |
| Operating Temperature | -40°C to +85°C |
| Relative Humidity | 5% to 95% (non-condensing) |
| MATING COMPONENT(S) | |
| Tokens | All SlimLine, NFX, DFX and UFX Tokens |
| Connector | Mates with 0.100" IDC Ribbon Cable Connectors |
| ORDERING INFORMATION ¹ | |
| SR4210 | 606-0051-000A |

1: "A" suffix on part number indicates RoHS compliance.

2: Customers must design to meet Datakey interface specifications to provide for future memory device compatibility. Interface specifications available at www.datakey.com.

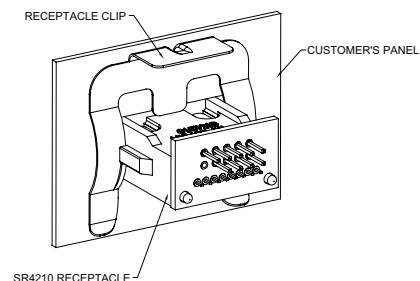
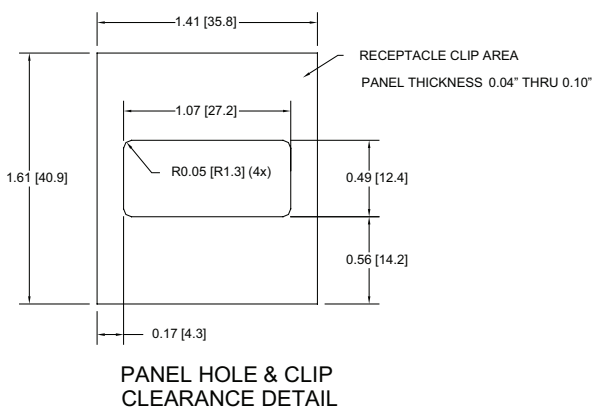
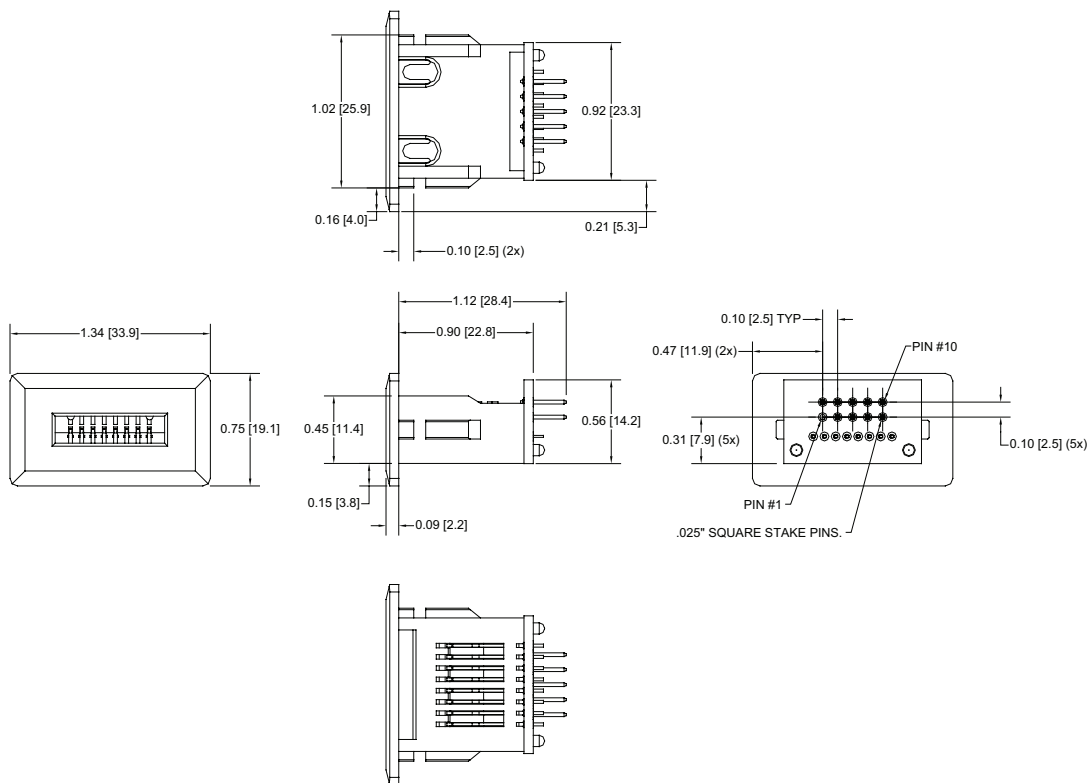
3: RST signal used on IIT Series only.

NOTES: Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



| PIN-OUT CHART ² | | | | | RUGGEDrive™ LINE | | |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------|--------------|
| Pin | Microwire | I ² C | SPI | NFX | DFX (SPI) | DFX (SD) | UFX (USB) |
| Pin 1 | NC | NC | NC | NC | NC (chassis option) | NC | NC |
| Pin 2 | Power (V _{cc}) | Power (V _{cc}) | Power (V _{cc}) | Power (V _{cc}) | Data Out (DO) | DAT0 | Power (+5V) |
| Pin 3 | Ground (GND) | Ground (GND) | Ground (GND) | Ground (GND) | /Chip Select (/CS) | DAT3 | Ground (GND) |
| Pin 4 | Do Not Use | SIZE / RST ³ | Do Not Use | Do Not Use | Ground (GND) | NC | NC |
| Pin 5 | Chip Select (CS) | Do Not Use | /Chip Select (/CS) | /Chip Select (/CS) | Ground (GND) | VSS | NC |
| Pin 6 | Data In (DI) | Do Not Use | Data In (SI) | MOSI | Power (V _{cc}) | VDD | DP |
| Pin 7 | Serial Clock (SK) | Serial Clock (SCL) | Serial Clock (SCK) | Serial Clock (SCK) | Serial Clock (SCLK) | CLK | DM |
| Pin 8 | Data Out (DO) | Serial Add/Data (SDA) | Data Out (SO) | MISO | Data In (DI) | CMD | NC |
| Pin 9 | Do Not Use | Do Not Use | /Hold | DP (USB) | Reserved | DAT1 | NC |
| Pin 10 | LOFO | LOFO | LOFO | DM (USB) | Reserved | DAT2 | NC |

NC = No Connection



Drawing dimensions are in inches and millimeters [mm].
Dimensions are nominal and subject to manufacturer's tolerances.



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