

# SR4210SM

## Board-Mount Receptacles



The power of memory. Secured.

SR4210SM board-mount receptacles mate with all Datakey SlimLine™, Extended SlimLine, NFX, and RUGGEDrive™ memory tokens (see token data sheets for more details). The SR4210SM receptacles feature a right-angle, board-edge design with surface-mount contacts. The receptacles can be pick-and-placed from their tray and are suitable for use in a reflow oven process.

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 gives users tactile 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 the NFX and RUGGEDrive memory tokens. The SR4210SM receptacle features flanges with 1/8-inch diameter non-threaded holes, which allows the receptacle to be secured to a PCB and/or panel with plastic rivets or other hardware.



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 +105°C
Operating Temperature	-40°C to +85°C
Relative Humidity	5% to 95% (non-condensing)
MATING COMPONENT(S)	
Tokens	All SlimLine, NFX, DFX, & UFX Tokens
ORDERING INFORMATION <sup>1</sup>	
SR4210SM	606-0050-004A
SR4210SM <sup>2</sup>	Contact ATEK

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

2: Receptacles shipped in moisture bag (108/108 min/mult)

3: RST signal used on IIT series only.

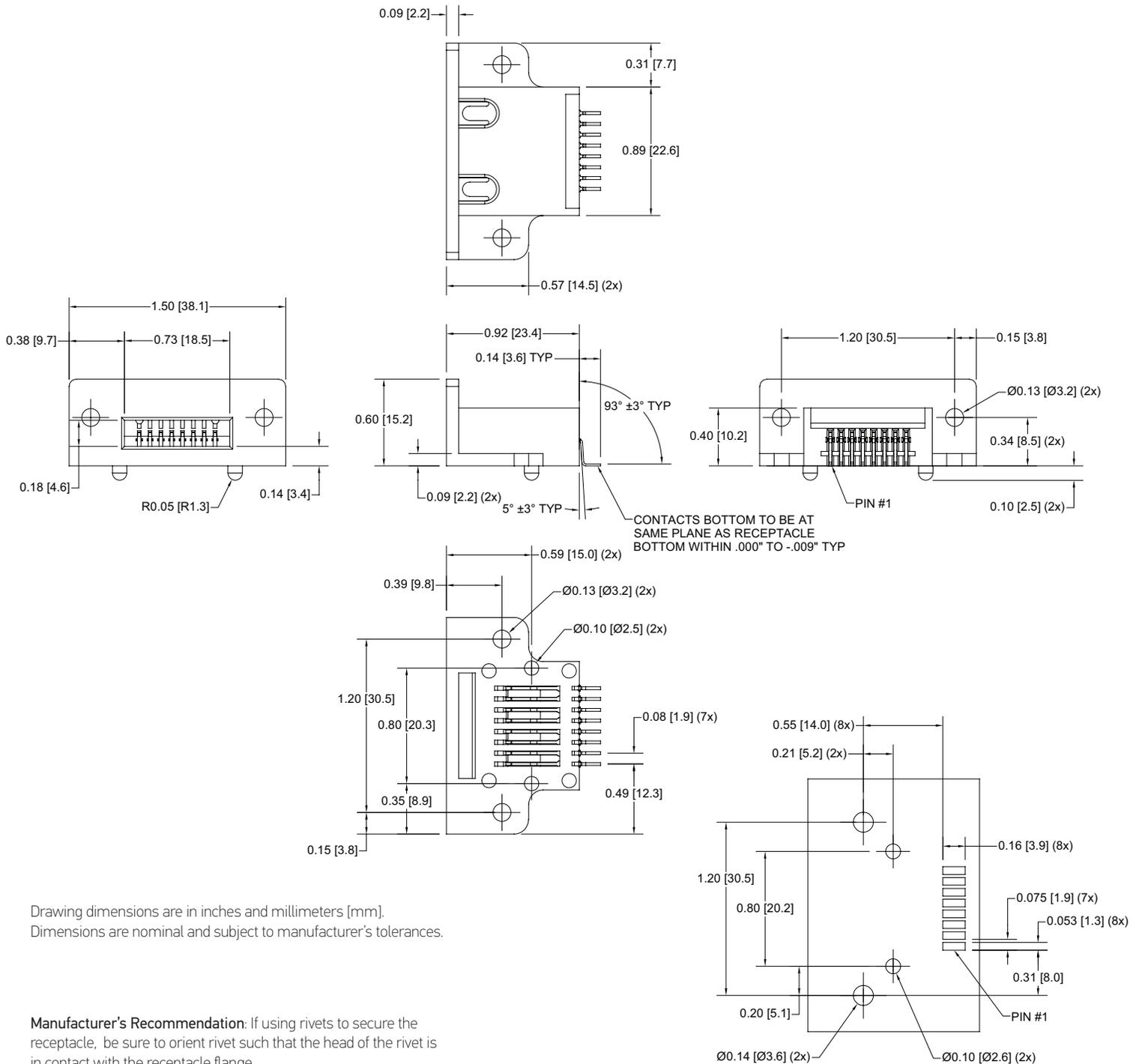
NOTES:

- Complete interface specifications available at: [www.datakey.com](http://www.datakey.com)
- Refer to recommended reflow instructions at: [www.datakey.com](http://www.datakey.com)
- 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					RUGGEDrive™ LINE		
Pin	Microwire	I <sup>2</sup> C	SPI	NFX	DFX (SPI)	DFX (SD)	UXF (USB)
Pin 1	LOFO	LOFO	/Hold	DP (USB)	Reserved	DAT1	NC
Pin 2	Power (V <sub>cc</sub> )	Data Out (DO)	DAT0	+5V			
Pin 3	Chip Select (CS)	SIZE / RST <sup>3</sup>	/Chip Select (/CS)	/Chip Select (/CS)	Ground (GND)	VSS	NC
Pin 4	Serial Clock (SK)	Serial Clock (SCL)	Serial Clock (SCK)	Serial Clock (SCK)	Serial Clock (SCLK)	CLK	DM
Pin 5	Data In (DI)	NC	Data In (SI)	MOSI	Power (V <sub>cc</sub> )	VDD	DP
Pin 6	Data Out (DO)	Serial Add/Data (SDA)	Data Out (SO)	MISO	Data In (DI)	CMD	NC
Pin 7	Ground (GND)	Ground (GND)	Ground (GND)	Ground (GND)	/Chip Select (/CS)	DAT3	GND
Pin 8	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.

**Manufacturer's Recommendation:** If using rivets to secure the receptacle, be sure to orient rivet such that the head of the rivet is in contact with the receptacle flange.

SUGGESTED SR4210SM RECEPTACLE PCB LAYOUT