SR4210PCB & SR4210SMT

Board-Mount Receptacles

Datakey®

The power of memory. Secured.

The SR4210 series of board-mount receptacles mates with all Datakey SlimLine™, Extended SlimLine, NFX, and RUGGEDrive™ memory tokens (see token data sheets for more details). The SR4210 board-mount receptacles are available in two versions: SR4210PCB for through-hole mounting and the SR4210SMT for surface mounting. Both receptacle models feature a right-angle, board-edge design.

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 SR4210PCB and SR4210SMT receptacles feature flanges with 1/8-inch diameter non-threaded holes, which allows the receptacles to be secured to a PCB and/or panel with plastic rivets or other hardware.

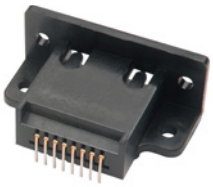
MECHANICAL	
Operating Life	50,000 Insertion/Removal Cycles Min.
Insertion Force	400 gf Min. / 2 kgf Max.
Removal Force	300 gf Min. / 2 kgf Max.
Vibration	15 *g* (three axes) Non-operating
ELECTRICAL	
Contact Resistance	Beginning of Life: 100 mΩ
	End of Life: 500 mΩ
ENVIRONMENTAL	
Storage Temperature	-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[1]	
SR4210PCB	606-0050-000A
SR4210SMT	606-0050-002A
SR4210PCB[2]	606-0050-005A
SR4210SMT[2]	Contact ATEK

1: "A" suffix on part number indicates RoHS compliance. See CE declaration below for details.
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
- Refer to recommended reflow instructions at: www.datakey.com
- Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, and as amended by Directive 2015/863/EU, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

CE



SR4210PCB
Through-Hole Technology

SR4210SMT
Surface-Mount Technology

PIN-OUT CHART					RUGGEDRIVE™ LINE		
Pin	Microwire	I²C	SPI	NFX	DFX (SPI)	DFX (SD)	UFX (USB)
Pin 1	LOFO	LOFO	/Hold	DP (USB)	Reserved	DAT1	NC
Pin 2	Power (V_{cc})	Power (V_{cc})	Power (V_{cc})	Power (V_{cc})	Data Out (DO)	DAT0	+5V
Pin 3	Chip Select (CS)	SIZE / RST[3]	/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_{cc})	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

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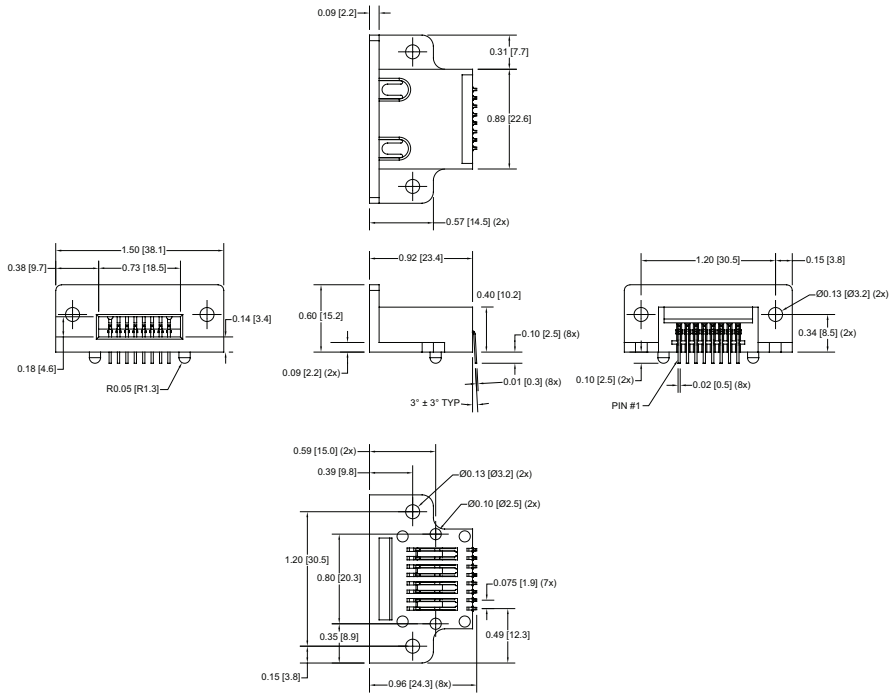
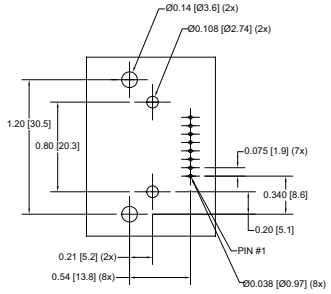
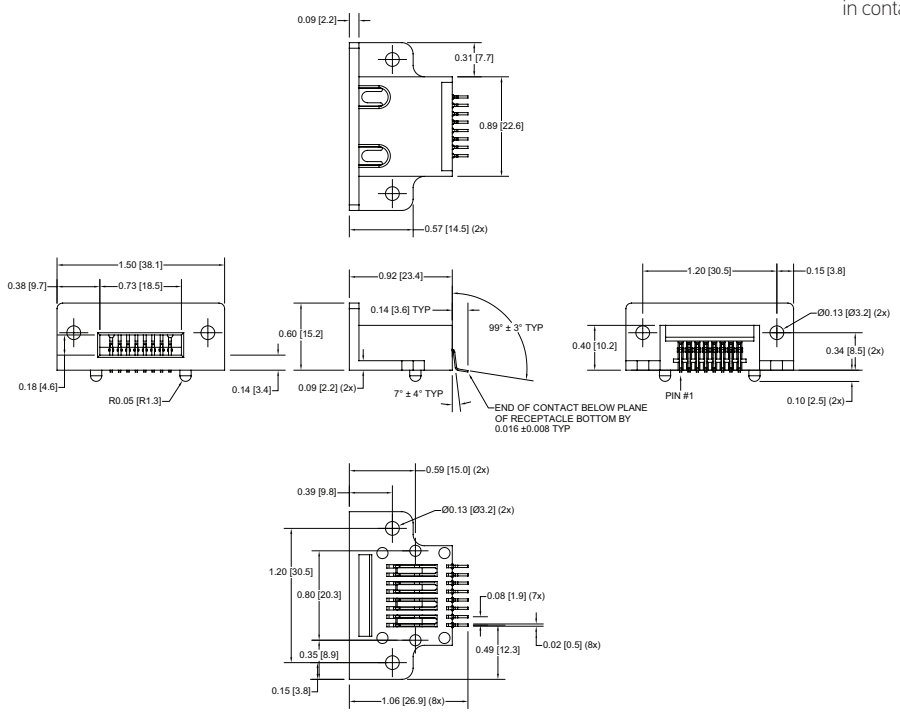
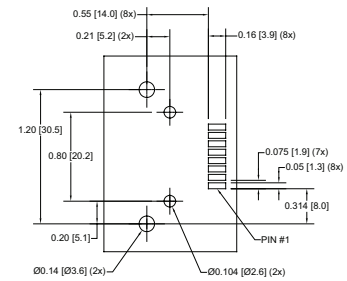




PCB RECEPTACLE PATTERN LAYOUT (THT)

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.





SMT RECEPTACLE PATTERN LAYOUT

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

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

221-0194-000 Rev. E 4/19

View our full product line at www.datakey.com

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