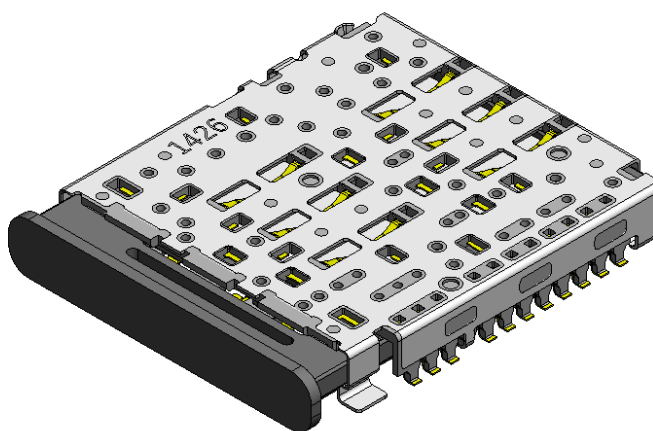


ST20 Series

MB-0422-1

Jun.2026

RoHS Compliant

【Overview】

Mobile devices require both connectivity and data storage, commonly supported by SIM cards and removable storage such as SD cards. These solutions remain widely used in applications requiring flexibility and expandability.

The ST20 Series integrates both functions into a stacked 3-in-2 connector, supporting nanoSIM + microSD or dual nanoSIM configurations.

A top-and-bottom tray design enables a slim profile and reduced PCB footprint, helping optimize internal space in compact devices.

【Application】

Mobile devices such as smartphones, tablets, drones, and dashcams.

【Features】

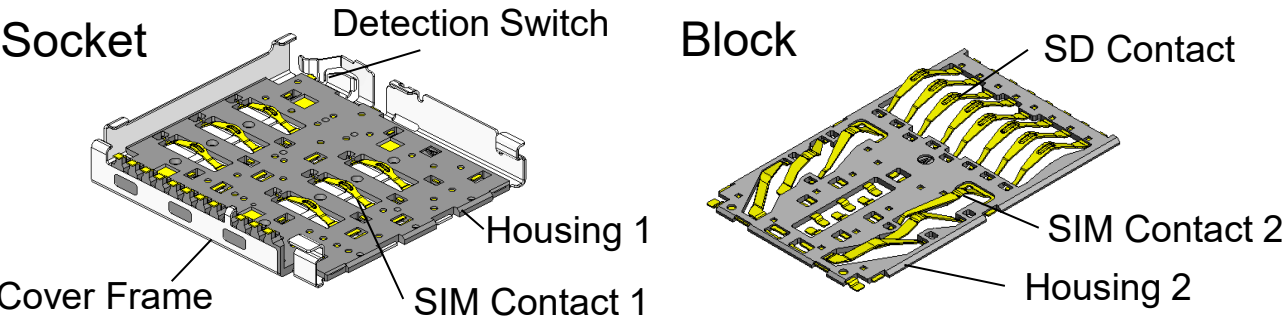
- 3-in-2 configuration (nanoSIM/microSD or nanoSIM/nanoSIM)
- Stacked, top-and-bottom tray design
- Push-pull tray operation
- Tray detection switch
- Misinsertion prevention structure

microSD™ is a trademark of the SD Association.

General Specifications

Number of Contacts	20 pos. + 2 pos. (detection switch)
Contact Resistance	Signal:100mΩ max. (initial) Detection switch:1Ω max. (initial)
Dielectric Withstanding Voltage	AC500Vr.m.s. (per minute)
Insulation Resistance	1000MΩ min. (initial)
Durability	2,500 mating cycles
Operating Temperature Range	-25 deg. C to +85 deg. C
Rated Current	0.5A max.
Rated Voltage	10V max.

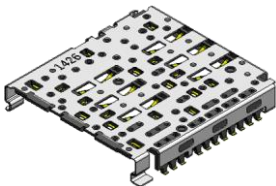
Materials and Finishes



Components	Materials	Finishes
SIM Contact 1	Copper alloy	Au/Ni plating (Contact and mounting area)
Housing 1	Heat-resistant plastic	-
Cover Frame	Stainless steel	Au/Ni plating (Contact and mounting area)
Detection Switch	Copper alloy	Au/Ni plating (Contact and mounting area)
SIM Contact 2	Copper alloy	Au/Ni plating (Contact and mounting area)
SD Contact	Copper alloy	Au/Ni plating (Contact and mounting area)
Housing 2	Heat-resistant plastic	-

Ordering Information

Socket



ST20 S 006 V C C R1 5 0 0

Series
ST20

Reeled Part Number
(Note 1)

Modification Code

Connector Type
S: Non-ZIF structure

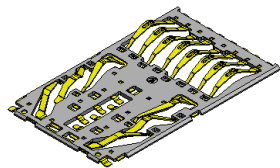
Finish
C: Au plating

Number of Contacts :
in three digits (***)

Connection Type
V: SMT mounting with hold-downs

Note 1) An embossed tape reel contains 1,500 pieces.
Please contact us for details on embossed tape specifications.

Block



ST20 S 014 W C D R4 0 0 0

Series
ST20

Reeled Part Number
(Note 2)

Modification Code

Connector Type
S: Non-ZIF structure

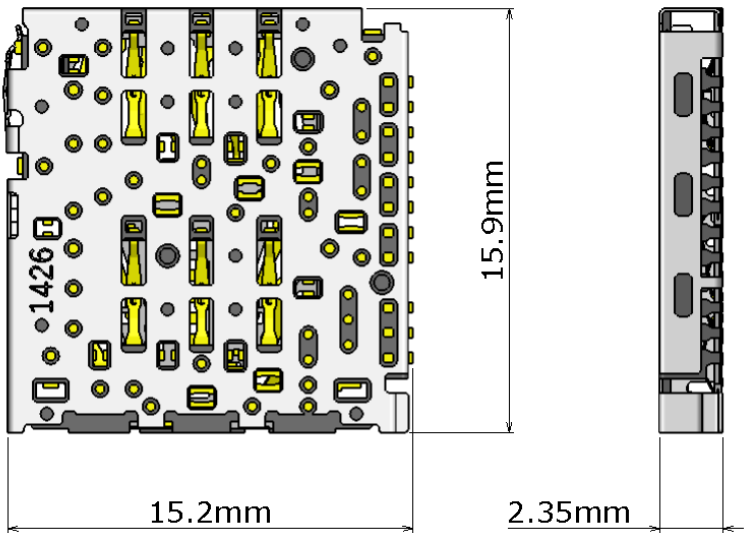
Finish
C: Au plating

Number of Contacts :
in three digits (***)

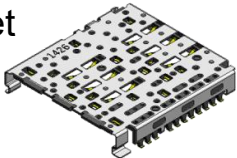
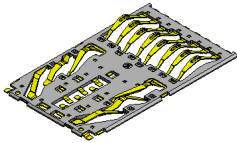
Connection Type
W: SMT mounting with no hold-downs

Note 2) An embossed tape reel contains 4,000 pieces.
Please contact us for details on embossed tape specifications.

Outer Dimensions



Part Numbers and Product Drawings

	Part Number	Drawing Number
Socket 	ST20S006VCC (Individual Product)	SJ131447
	ST20S006VCCR1500 (Reeled Product)	SJ131448
Block 	ST20S014WCD (Individual Product)	SJ131449
	ST20S014WCDR4000 (Reeled Product)	SJ131450
Tray* 	Card Storage Tray	-

*JAE does not manufacture or sell the tray. Card storage tray reference design available.

Technical Documents

Specifications	JACS-11577
User Manual	JAHL-11577

Notice:

1. The specifications provided in this brochure are for reference purpose only. The products and their specifications are subject to change without notice. Please contact our sales representatives for further information before considering or placing an order. A formal product specification must be agreed upon prior to purchase.
2. Users are responsible for implementing appropriate protection and redundancy circuits to ensure safety of the equipment and sufficiently review the suitability of JAE's products to the equipment.
3. The products presented in this brochure are designed for the uses recommended below.
We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.
- (1) Applications that require consultation:
(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
(ii) We may provide separate support based on your specified quality assurance program, when you think of a use such as :
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.
- (2) Recommended applications include:
Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

Japan Aviation Electronics Industry, Limited

* The specifications in this brochure are subject to change without notice. Please contact JAE for information.