

Memory Card Combo Connectors

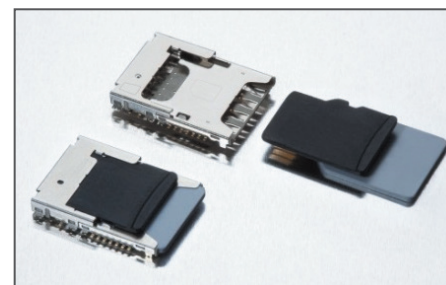
Stacking Type, With Detect Switch, Normal Mount

molex[®]

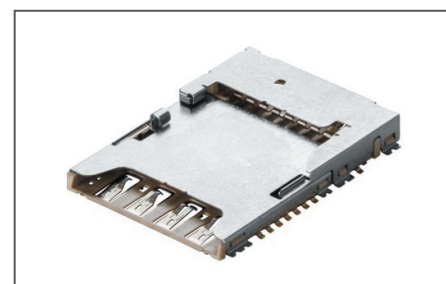
Space-saving stacking-type memory card combo connectors combine two formats in a single unit for easy memory card access and removal to meet various mobile application needs

Features and Benefits

Compact size with small footprint and low profile height	Provides optimum PCB real estate and vertical space savings
Free insertion and withdrawal of microSD card	Eliminates the need to turn off power or remove battery
Anti-stubbing contact terminal design	Prevents contact stubbing and ensures smooth insertion and withdrawal of card
Card polarization features	Prevent incorrect insertion of card
Pull-Lever and Push-Pull card eject options	Meet various design needs
Anti-card-sticking design	Prevents microSD card from being stuck in case of wrong insertion into micro SIM slot
Multiple PCB hold-down points (SMT and Through-hole)	Assure secure PCB retention



microSD/micro-SIM Combo Connector, Push-Pull type



microSD/nano-SIM Combo Connector, Pull-Lever type

Markets and Applications

Mobile Equipment

- Smart Phones
- Tablet PCs



Smart Phones



Tablet PCs

Specifications

REFERENCE INFORMATION

Packaging: Embossed Tape, Reel
 Use With: microSD, micro-SIM and nano-SIM cards
 Designed In: mm
 RoHS: Yes,
 Halogen Free: Yes

ELECTRICAL

Voltage (max.): 10V
 Current (max.): 0.5A
 Contact Resistance: See Product Specifications
 Dielectric Withstanding Voltage: 500V AC
 Insulation Resistance: 1,000 megaohms min.

MECHANICAL

Durability (min.):
 10,000 Cycles (microSD)
 5,000 Cycles (micro-SIM)

PHYSICAL

Housing: LCP, Natural (Ivory), UL94 V-0
 Contact Terminals: Copper Alloy
 Switch Terminals: Phosphor Bronze
 microSD Shell: SUS
 microSIM Shell: SUS
 Plating:
 Contact & Switch Terminals:
 Contact Area — Gold
 Solder Tail Area — Gold
 Base — Nickel
 Operating Temperature: -40 to +85°C

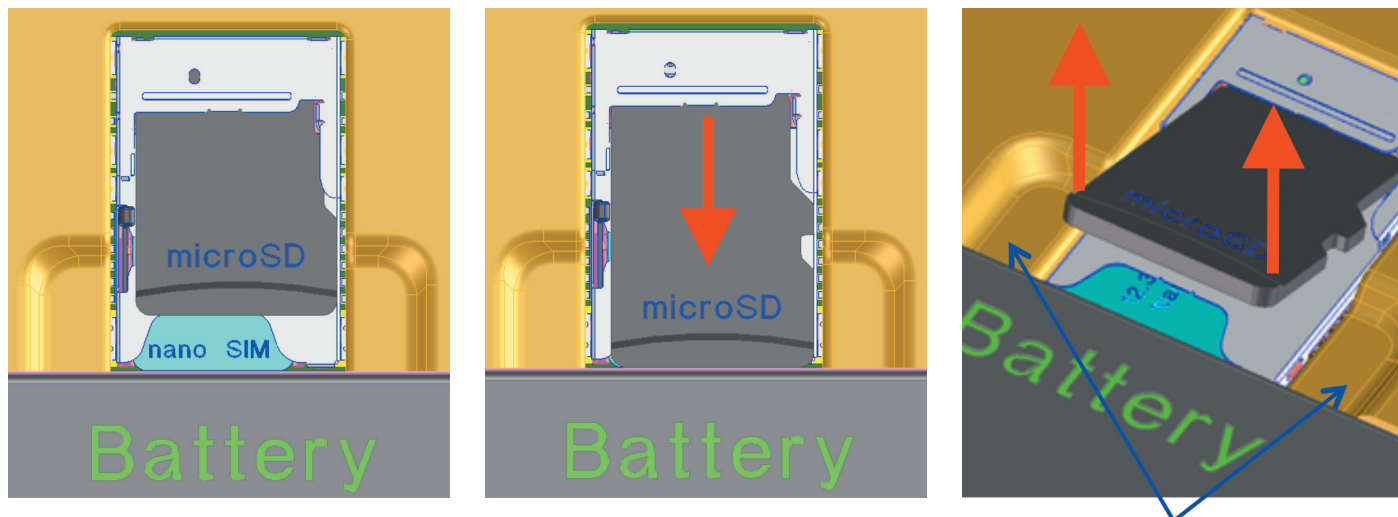
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Additional Product Features

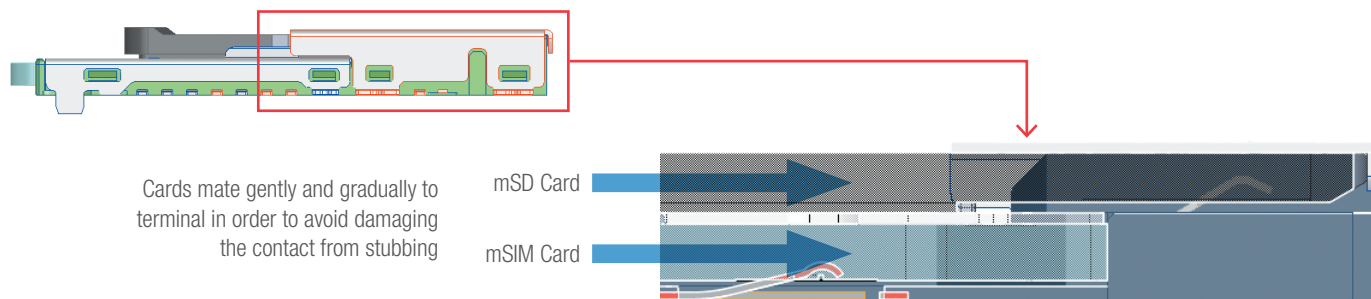
Free Removal of microSD Card When Power is On



Recommended Shape (Easy to eject a microSD card)

The microSD card can be removed without rebooting, which benefits users so they don't miss calls or messages.
The nano-SIM or micro-SIM card can only eject after the battery has been removed. (Pull-Lever type shown).

Anti-Stubbing Terminal



Cards mate gently and gradually to terminal in order to avoid damaging the contact from stubbing

The microSD/micro-SIM terminal design has the contact beam sloping in the opposite direction from where the card is inserted. This prevents any terminal damage from the card stubbing into the terminal during insertion. The design also provides smooth insertion and withdrawal of cards. (Push-Pull type shown).

Ordering Information

Order No.	Description	Circuit Size	Height (mm)	Width (mm)	Depth (mm)
104168-1620	microSD/micro-SIM Combo Push-Pull Type	microSD: 8 micro-SIM: 8	2.28	14.10	18.27
104239-1430	microSD/nano-SIM Combo Pull-Lever Type	microSD: 8 nano-SIM: 6	2.05	12.90	17.90
104642-1610	microSD/micro-SIM Combo Pull-Lever Type	microSD: 8 micro-SIM: 8	2.10	14.10	18.25

www.molex.com/link/microsdcombo.html