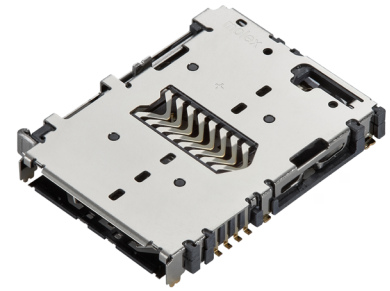# mSD/nSIM 3-in-3 Stacked Socket, Pin-Eject Type
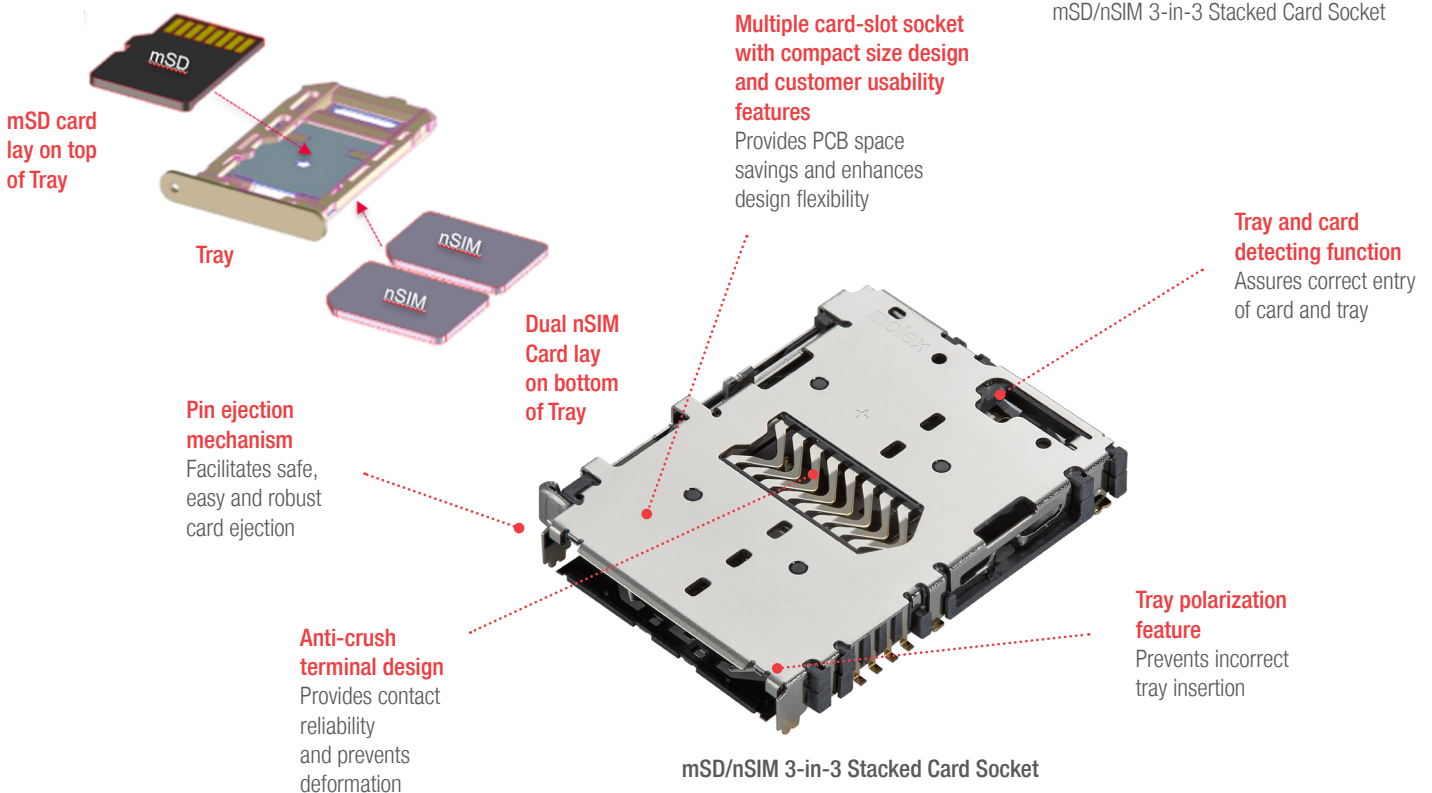
molex

Molex's compact and low-profile mSD and dual-nSIM 3-in-3 Stacked Card Socket with secure electrical contact, pin-eject function and easy card insertion and removal, delivers PCB space-savings making it ideal for ultra-thin electronic devices requiring removable and reliable multi-card connectivity

mSD/nSIM 3-in-3 Stacked Card Socket

Features and Advantages

mSD card lay on top of Tray

Tray

Dual nSIM Card lay on bottom of Tray

Pin ejection mechanism
Facilitates safe, easy and robust card ejection

Anti-crush terminal design
Provides contact reliability and prevents deformation

Multiple card-slot socket with compact size design and customer usability features
Provides PCB space savings and enhances design flexibility

Tray and card detecting function
Assures correct entry of card and tray

Tray polarization feature
Prevents incorrect tray insertion

mSD/nSIM 3-in-3 Stacked Card Socket

Applications

Smart Phones/Mobile devices
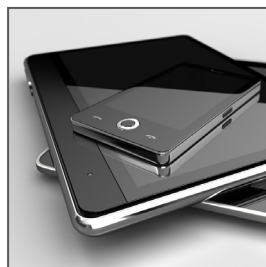   Mobile Devices
    Tablet PCs

Commercial & Consumer
    Internet of Things (IoT) Applications
    Home Appliances
    Smart Speakers
    AR/VR

Industrial
    UAVs / Drones
    Security Systems
    Smart Meters

Mobile Devices

Smart Speaker

UAVs / Drones

mSD/nSIM 3-in-3 Stacked Socket, Pin-Eject Type

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Specifications

REFERENCE INFORMATION
Packaging: Embossed tape
Designed In: Millimetres
RoHS: Yes
Halogen Free: Low halogen

ELECTRICAL
Voltage (max.): 10V
Current (max.): 0.5A
Contact Resistance (max.):
    mSD / nSIM - 100 milliohms
    Detector/Switch - 200 milliohms
Dielectric Withstanding Voltage: 500V AC (rms)
Insulation Resistance (min.): 1000 Megohms

MECHANICAL
Tray Insertion Force (max.): 10N
Pin Ejection Force: 4 to 13N
Contact Normal Force (Initial):
    mSD: 0.3N min/PIN
    nSIM: 0.35N min/PIN
Durability: 2,000 cycle
Heat Resistance: 85±2°C x 96Hr
Cold Resistance: -40±3°C x 96Hr

PHYSICAL
Housing: LCP
Contact: Copper Alloy
Shell & Detector : Stainless Steel
Eject Bar : Stainless Steel
Hinge : Stainless Steel
Operating Temperature: -40 to +85°C

www.molex.com/product/memory/simcard.html