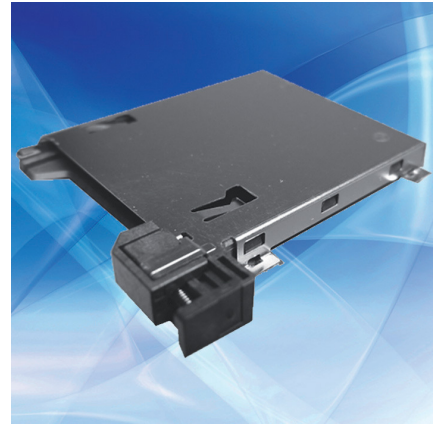


Vibration-resistant automotive SD card reader with push-lock system

Yamaichi Electronics has launched another innovative product to the SD card reader family currently on the market.

The FPS009-4200-0(03) was especially designed for applications with increased requirements for mechanical stability, shock and vibration resistance. This makes Yamaichi Electronics's push-lock reader perfect for applications in the automotive or industrial markets.



The special feature is the "one-action lock" mechanism. A spring automatically locks the card into the insert with a ratchet hook on the side. To release the card, you simply push the ratchet hook back. The card is unlocked and spring pressure pushes it out visibly for convenient removal. This interlock mechanism ensures secure card positioning even in the face of strong vibrations and shock. This function is supported by a unique contact design. So-called 2-point contacts secure contact reliability even at different vibration frequencies, so that electrical power is not interrupted.

Key Features:

- Extreme temperature fluctuations were considered in the design – the materials were selected to guarantee use from $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$.
- The closed metal housing and the four grounding tabs ensure good EMC behaviour.
- The reader has a spiral spring to permit the smooth, quick insertion and removal of the card (about 100 plug cycles).
- The design also ensures that SD cards with dimensions in the upper or lower tolerance range are subjected to optimum contact pressure.
- The card reader supports cards that comply with the SDIO Standard.
- Packaging and delivery is on tape reel belts.

Datasheets and additional information can be found on www.yamaichi.eu