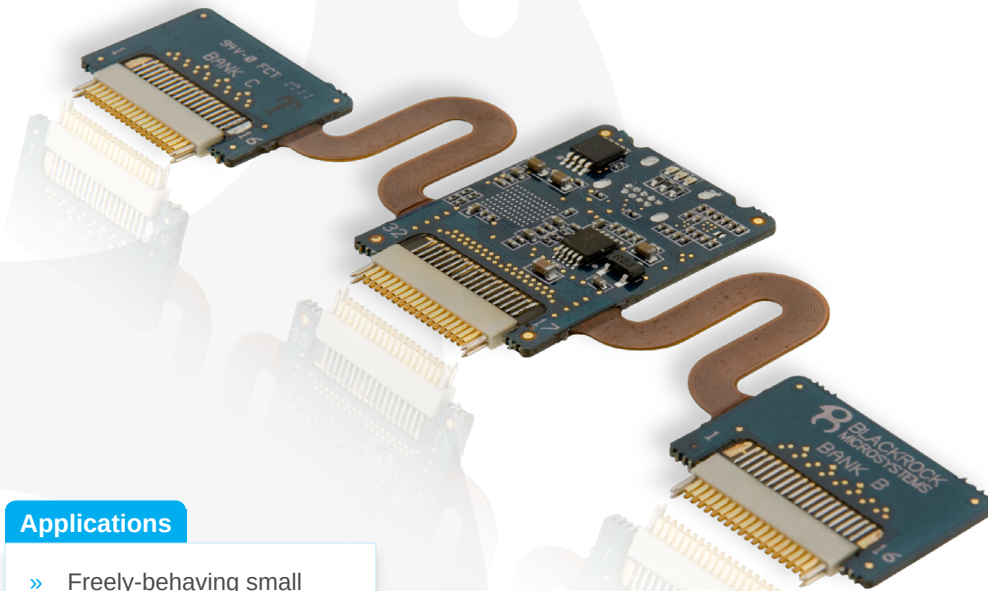


CerePlex™ M



Key Features

- » Onboard digitization
- » Multiplexed, 7-wire output for 32, 64, or 96 electrodes
- » Miniature and light weight
- » Eliminates artifacts from cable motion and environmental noise
- » Spike and field potential recording

Applications

- » Freely-behaving small animals
- » Head-free, non-human primates

The CerePlex™ M™ is a small and lightweight digital headstage that provides an extremely low-noise, 7-wire, all-digital link from up to 96 neural microelectrodes to the Cerebus™ data acquisition system. The onboard digitization circuitry of the CerePlex™ M™ eliminates artifacts due to headstage cable motion and environmental noise pick-up. Its multiplexed output allows the researcher to use a single lightweight cable instead of multiple bulky cables and removes the need for an expensive motorized commutator when recording from freely behaving small animals such as rats, mice and birds.

Spikes and Field Potentials
from 96 microelectrodes implanted
in a freely-moving rodent



Specifications

Channel Count	32	64	96
Dimensions	28 x 19 x 5mm	28 x 24 x 7mm	28 x 29 x 9mm
Weight	< 3.0 grams	< 3.8 grams	<4.6 grams
Noise (input grounded)	3 μ V RMS		
Input Impedance	> 10 G Ω 3 pF		
Sampling	30 kHz at 16 bits		
Input Coupling	AC		
Bandwidth	0.3 Hz – 7.5 kHz		
Output Cable	7 wires (36 AWG), Kevlar wrap (biting protection)		
Power Supply	\pm 2.5V to \pm 5V DC		
Resolution	0.25 μ V		
Input Connector	Dual-row, 36-pin, female, 0.025" pitch Omnetics		