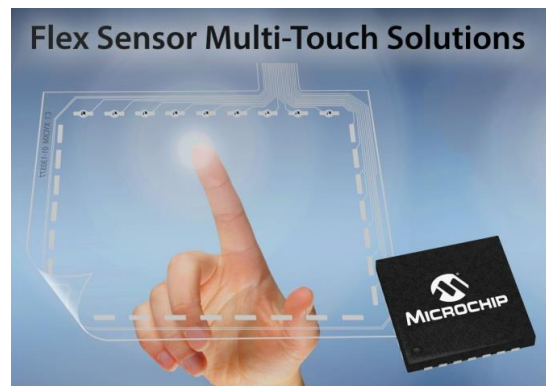# Flex Sensor Multi-Touch Solutions

- **Xymox's printed transparent sensors made with** [KODAK HCF (Highly Conductive Film)](#)

- **Combine with Microchip's MTCH6102 low-cost, low-power touch electronics**

- **To enable fast, inexpensive development of touch and gesture enabled devices**

✓ **Transparent**
✓ **Formable**
✓ **Low Cost**
✓ **Rapid Prototyping**

Flex Sensor Multi-Touch Solutions

Xymox flex sensors with Microchip low power touch electronics are ideal for applications like wearables, thermostats and handheld devices.

Xymox Flex Sensor Gesture Demo & MTCH6102 Specs			
Resolution	Up to 12-bit resolution coordinate reporting		
	128 X 64 Dot-Matrix Display (Electronic Assembly EA DOGL 128W-6)		
Report Rate	Demo Single Touch		80Hz
	MTCH6102 Single Touch		200 Hz
	Dot Matrix Display Update Time		260-1620 µs
Power Consumption	Demo Operating Voltage		3.3v
	Demo Run Current		3 mA
	MTCH6102 Operating Voltage		1.8 - 3.3V
	MTCH6102 Active Mode		<12uA possible
	MTCH6102 Sleep Current		<500nA (typical)
Operating Frequency	16MHz		
Memory Usage	ROM 28 KB Total	Touch Code	11.1 KB
		Graphics Engine	14.3 KB
		Graphics Art	2.6 KB
	RAM 1 KB Total	Touch Code	553 bytes
		Graphics Engine	387 bytes
Sensor	9 x 5 diamond pattern		
	Xymox Flex Sensor from Kodak HCF Film		
	1.5mm Acrylic overlay Other sensor designs and overlays possible		