



# X-Beam<sup>™</sup> FPC Jumper (XFPC) High Speed – High Power FPC link between PC Boards

#### **OVERVIEW**

The Neoconix XFPC products are semi-custom FPC jumpers that provide a flexible, separable, electro-mechanical link between two printed circuit boards (PCBs). The product consists of an advanced flexible printed circuit (FPC), each end of which will be secured to an ultra-low profile X-Beam connector that has been surface mounted onto each mating PCB.

X-Beam connectors occupy minimal board space and offer a rare combination of outstanding reliability, signal integrity, and power delivery. While the connectors and FPC pad patterns are standardized, the FPC layout is custom-designed for each application, based on the particular signal, power, and length requirements of that application.

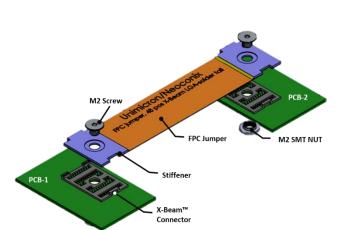


The FPC features gold-plated pads and integrated stiffeners on both ends and is secured to the X-Beam™ connector with a simple, highly reliable screw-down fastening system. By combining the advanced FPC design with an extremely short electrical termination path, these assemblies can uniquely combine high-speed signaling (>10Gbs) and significant power delivery (>5A). The XFPC Jumpers can be designed for signal, power or signal+power applications.

The XFPC Jumper product series is part of the Neoconix FPConnected™ family of FPC connector assemblies.

#### **FEATURES**

- Low Profile X-Beam Mainboard Connection: 1.17mm
- High Speed: to 10Gbps, Road Map 28Gbps
- High Current to > 5A
- Standard X-Beam pin counts of 12, 28, 48, and 68 positions
- Flexibility in FPC length (typically 20mm 150mm)
- · Custom FPC layout for high degree of optimization
- Highly reliable, screw-down connection to Mainboard
- Small footprint to Mainboard





## **ORDERING INFORMATION**

One XFPC jumper assembly consists of 1 FPC, 2 X-Beam connectors, 2 SMT nuts, and 2 screws, ordered separately Connector & hardware common part numbers are shown below.

Connector				
X-Beam Connector (x2)				
XBM-D012A (12-pos)				
XBM-G028A (28-pos)				
XBM-D048C (48-pos)				
XBM-D068A (68-pos)				

Hardware				
Screw Part Number(x2)	Description	M2 SMT Nuts (x2)	PCB Thickness (mm)	
B01-000662	M2 x 0.25 mm pitch, 3mm L	B01-000633	≤1.0	
B01-000661	M2 x 0.40 mm pitch, 3mm L	B01-000654	1.0 – 1.6	
B01-000660	M2 x 0.40 mm pitch, 4 mm L		1.6 – 2.6	
B01-000659	M2 x 0.40 mm pitch, 5mm L		2.6 – 4.0	

### FOR MORE INFORMATION

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