

LPM FPC Jumper Series (PFPC)

High Speed FPC Link Between PC Boards

OVERVIEW

The Neoconix PFPC LPM Jumper product series provides a flexible electro-mechanical link between two circuit boards, utilizing an advanced flexible printed circuit (FPC) which mates to ultra-low profile and fully separable LPM PCBeam™ connectors on both ends.

The FPC features gold-plated pads as well as integrated stiffeners on both ends and is secured to the LPM PCBeam™ connector with a simple, highly reliable screw-down fastening system. While the LPM connectors and FPC mating pad footprints are standardized, the FPC layout is custom-designed for each application based on its particular signal, power, and length requirements.

By combining the advanced FPC design with an extremely short electrical termination path, these assemblies can uniquely combine high-speed signaling (>10Gbps) and significant power delivery (>10A). The PFPC Jumpers can be designed for signal, power or signal+power applications. The PFPC LPM Jumper product series is part of the Neoconix FPCConnected family of FPC-connector assemblies.

FEATURES

- High performance PCBeam™ connector technology
- Ultra-low profile, 0.28mm connector thickness
- High density 0.74mm contact pitch
- Standard pin counts of 24, 56 & 80 positions
- Flexibility in FPC length (typically 20mm – 150mm)
- High current to >10A on some configurations
- High speed to >10Gbps
- Meets PCIe3.0 & USB3.1 signal integrity requirements (10Gbps)
- Pick & place compatible standard hardware (pins & nut)
- Compliant with ROHS 2011/65/EU and IPC-4101B (halogen-free)

ORDERING INFORMATION

One PFPC jumper assembly consists of 1 FPC Jumper, 2 LPM interposers, 2 SMT nuts, 2 screws, and 4 SMT alignment pins. See AS-000026 (PFPC Product Specification) for more details.

FPC (x1)	LPM Interposer (x2)	M1.4 SMT Nut (x2)	M1.4 Wafer Head Screws (x2)	SMT Dowel Pins (x4)
Custom P/N (F01-xxxxxx)	LPM-024A (24-pos) LPM-056A (56-pos) LPM-080A (80-pos)	B01-000581	B01-000614 (L=3, P=0.3, if PCB 0.7-1.7mm) B01-000657 (L=4, P=0.3, if PCB 1.7-2.7mm) B01-000658 (L=5, P=0.3, if PCB 2.7-3.7mm)	B01-000589

FOR MORE INFORMATION

