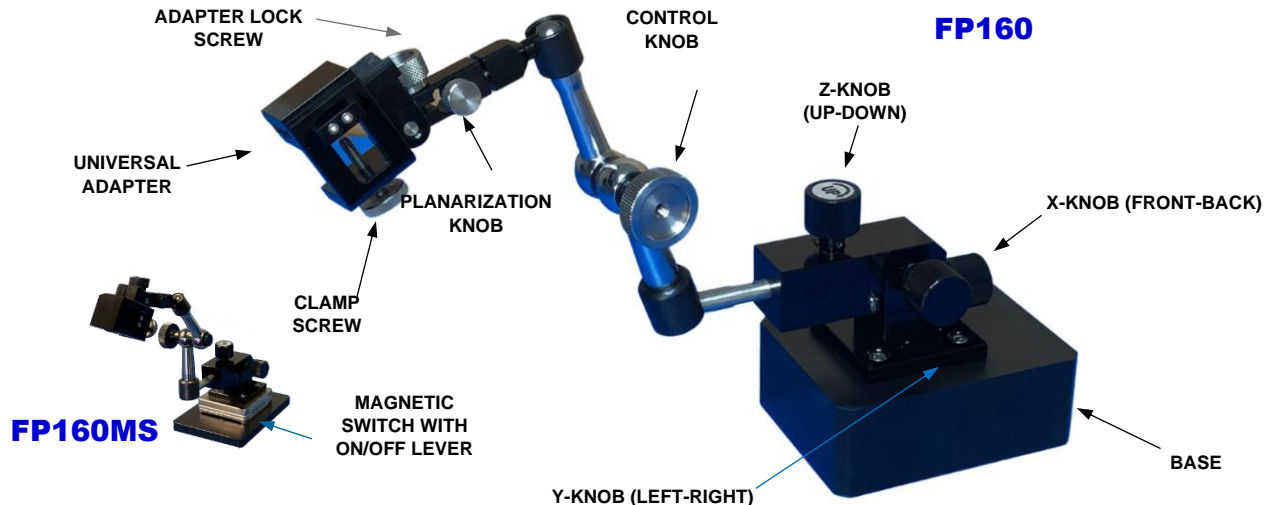


FLEX POSITIONER FP160

THE FLEXIBLE, HIGH-PRECISION PROBE MANIPULATOR



US Patent 8,836,357

Video: https://packetmicro.com/Videos/PacketMicro_FP160_Positioner.mp4

FP160 Flex Positioner is an innovative probe positioner for quick and stable hands-free probing. Its unique combination of an articulated arm and an independent precision XYZ stage allows a user to quickly and accurately place the probe on the target. Using the articulated arm for coarse positioning first and then controlling the fine adjustments with the XYZ stage and probe tips planarization knob, one can make good test measurements with reliable probe contact.

- Articulated arm controlled by a single thumb knob
- Independent XYZ stage for fine adjustments of probe position and contact force
- Universal adapter holds most active probes, passive probes, and differential browsers from equipment manufacturers, such as Rohde-Schwarz, Keysight, Tektronix, and Le Croy.

SPECIFICATIONS	
Articulated arm	4 links and 3 joints controlled by a single thumb knob
Arm Length	210 mm (8.7")
XYZ-axis Travel	12 mm with 500 $\mu\text{m}/\text{turn}$ (50 TPI)
Planarization θ control	$\pm 7.5^\circ$
Dimensions / Weight	320 Lmax x 68 W x 278 mm Hmax, (12.5 x 2.7 x 10.9") / 2.8 kg (6.2 lb.)

ADAPTERS



Universal Adapter (UA16-FP160)

UA16 adapter is for holding large oscilloscope and RF probes

- Size: 25 L x 25 W x 35 mm H (1 x 1 x 1.4")
- Opening: adjustable 4 – 16 mm (0.16 – 0.63")



Microscope Adapter (HDM1)

HDM1 adapter with fixed level indicator is for holding digital microscopes

- Size: 68 L x 40 W x 25 mm H (2.7 x 1.6 x 1")
- Diameter adjustable: 31.5 – 32.5 mm (1.24 – 1.28")

APPLICATIONS

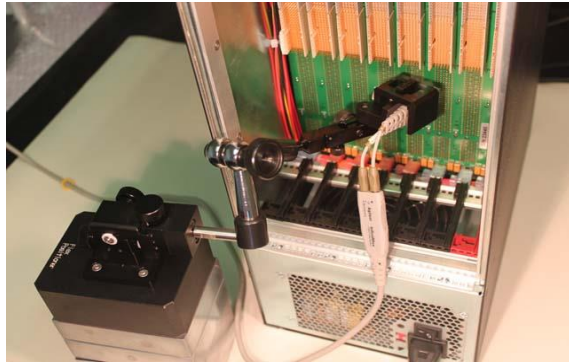
A Helping Hand for Engineers



FP160 for holding an oscilloscope probe

FP160 with a test probe is ideal for lengthy, unmanned testing and detection of hard-to-find glitches.

Vertical Probing of Hard-to-Reach Area



FP160 for vertical probing of a backplane

The rugged FP160 structure is perfect for the challenging tasks of vertical probing of boards and backplane in a chassis.

PART NUMBERS	DESCRIPTION
FP160	Articulated-arm positioner with XYZ stage, and universal adapter
HDM1	Microscope adapter with fixed level indicator
MA02	Microscope adapter with adjustable level indicator
FP160MS	Articulated-arm positioner with XYZ stage, magnetic switch, and universal adapter
FP160MS-MA02	Articulated-arm positioner with XYZ stage, magnetic switch, and MA02 adapter

ACCESSORIES	DIGITAL MICROSCOPE
AF4515ZTL	Dino-Lite Edge 1.3MP 10x-140x, LWD, polarizer, AMR
AF7115MZTL	Dino-Lite Edge 5MP 10x-140x, LWD, metal housing, polarizer
AF7515MZTL	Dino-Lite Edge 5MP 10x-140x, LWD, metal housing, polarizer, AMR

FLEX POSITIONER FAMILY

Flex positioner family includes FP160MS, FP160, FP80, and FP40 manipulators for a wide range of applications. The following is a brief summary of their specifications and applications.

Product	Articulated Arm	Θ Control	Position Control	Base	Dimensions Lmax x W x Hmax	Weight	Applications
FP160MS	210 mm (8.3")	$\pm 7.5^\circ$	XYZ	Magnetic Switch	320 x 68 x 250 mm (12.5 x 2.7 x 9.8")	0.9 kg/2 lb. Body 0.8 kg/1.8 lb. Plate	Microscopes, Scope Probes Work with all PacketMicro fixtures
FP160	210 mm (8.3")	$\pm 7.5^\circ$	XYZ	Metal Base	320 x 68 x 278 mm (12.5 x 2.7 x 10.9")	2.8 kg/6.2 lb. All	Scope Probes, Microscopes Standalone operation
FP80	260 mm (10.2")	No	XY	Magnetic Switch	360 x 68 x 380 mm (14.2 x 2.7 x 15")	1.6 kg/3.5 lb. Body 0.8 kg/1.8 lb. Plate	Scope Probes, Microscopes Work with some fixtures
FP40	260 mm (10.2")	No	No	Magnetic Switch	350 x 60 x 380 mm (13.8 x 2.4 x 15")	1.5 kg/3.3 lb. Body 0.8 kg/1.8 lb. Plate	Microscopes, Scope Probes Work with some fixtures