

Introduction Of Harwin Outstanding Innovation To PDA Application

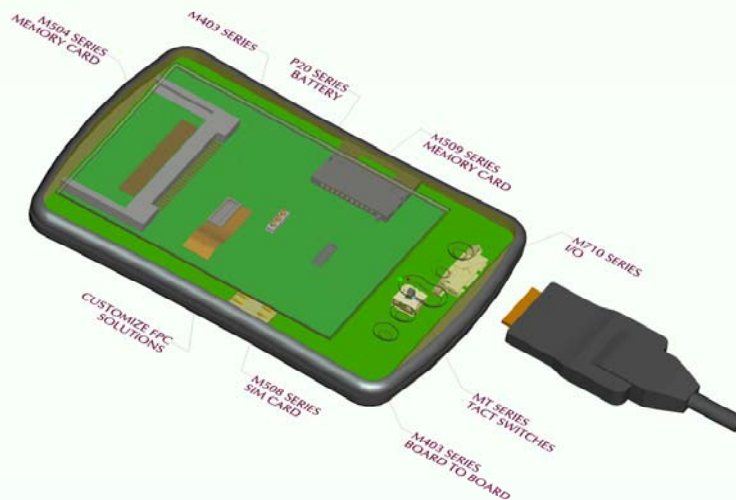
Harwin's Capabilities have developed in response to the specialist interconnection demands of OEM PDA designers and manufacturers. We are able to offer total interconnect solution ranging from I/O connectors, board to board, RF signal, battery connector, FPC, FFC as well as cable assembly.

Harwin's can meet virtually any interconnection challenge through our extensive range from 0.5mm pitch board to board with stack height of 1.5mm and above, SMT mini usb or memory card connector, sim card mobile I/O connectors, DC or Earpiece Jacks, sliding or Rotary Hinge complete with custom solution design capabilities to meet your every demand.

Why Choose Harwin

Connecting the World for more than half a century Harwin global network of manufacturing, sales and support centers and distributors, we're uniquely placed to meet the specialist needs of the world interconnection market. Work closely with clients large and small – including leading international companies and organizations such as NASA, Motorola, Deft University, Raymarine and Powerwave – to offer a personal, solutions-based service where quality and customers care remain our top priority.

Harwin Design Capabilities





INTERCONNECT DESIGN & MANUFACTURE

Selection category

FPC

Series	Pitch mm	Mounting	Circuits	Width mm	Height mm	Contact Area	Actuator Type	Finish Plating
F05E-XX21XXR	0.3	R/A	23	4.5	1.55	Bottom	Flip Up	Gold / Tin
F03-300XX45R			13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,45,49,51,57,71	3.35	1.00		Front Flip	Gold
F05-210XX46R	0.5	SMT	6, 8	3.70	1.20	Top	Pull Type	Tin
F05E-XX1146R			4 TO 60	4.40	2.00	Bottom		
F05E-XX2146R						Top		
F05E-XX3146R	0.8	R/A	3 TO 30	5.60	2.40	Bottom		
F08-200XX46						Top		
F08-210XX46	1.0	DIP	4 TO 32	5.00	4.00	Top		
F10-100XX46						Bottom		
F10-110XX46		VERTICAL	4 TO 30	2.45	5.30	Top		
F10-120XX46						Bottom		
F10-390XX46		R/A	4 TO 24	3.60	1.55	Bottom		
F10-480XX46						Top	Slide out	
F10-490XX46		VERTICAL	4 TO 36	2.80	5.60	Dual	None	
F10-520XX46						Bottom	Pull Type	
F05-400XX45R		0.5	R/A	8,10,14,16,18,20, 30	4.30	2.00	Top	Gold
F05-410XX45R							Bottom	
F10-280XX46R	1.0	R/A	3 TO 26	3.00	3.00	Bottom	Pull Type	Tin
F10-290XX46R						Top		
F10-295XX46R						VERTICAL		

Kindly check with sales for available of ways

Board to Board

Series	Pitch mm	Mounting	Circuits	Gender	Width mm	Height mm	Mating Height mm	Finish Plating
M402FX-XX05R	0.5	SMT	10,12,14,16,20,22,24,26,30,34,40,50,60,70,72,80,90,96,100	Female	4.80	1.35 , 1.85	1.50 , 2.00 , 2.50	Gold
M402MX-XX05R				Male	2.50	1.25 , 1.75	1.50 , 2.00 , 2.50	
M403-830XX45R	0.4		54	Female	4.50	0.80	0.90	
M403-835XX45R				Male	3.36	0.65	0.90	

Kindly check with sales for available of ways



INTERCONNECT DESIGN & MANUFACTURE

Selection category

Board to Board

Series	Pitch mm	Mounting	Circuits	Gender	Width mm	Height mm	Mating Height mm	Finish Plating
M402VF-3-XXX-XXNR	0.5	SMT	10 TO 160	Female	4.80	1.50,2.00,2.50,3.00,4.00,5.00,6.00,7.00,8.00,9.00,10.00	2.0 TO 17.50	Tin
M402VM-3-XXX-XXNR				Male	4.0	0.5,1.00,1.5,7,7.5		
M60-60XXX45	0.8		10,15,20,25,30,40,50	Female	4.35	4,5,6	5,6,7,8,9	Gold
M60-61XXX45				Male				
M40-600XX46	1.0		9,15,21,25,31,41,51	Male	4.20	3.30	4.30	Tin
M40-602XX46				Female				

Kindly check with sales for available of ways

Memory Connector

Series	Memory Type	Mounting	Feature	Width mm	Height mm	Durability Cycles	Finish Plating
M502-6860942	SD	SMT	Standard	28.30	3.40	5000 Min.	Gold at contact , Tin at Solder tail
M502-6870942			Reverse				
M502-6880942			Push-Push	28.50	2.65	10000	
M502-6890945			Push type Reverse mount	28.60	2.25	5000 Min.	Selective Gold and Tin
M502-69X0942			Push Push with 1.5MM / 1.8MM Stand off	28.50	2.65	10000	Gold at contact , Tin at Solder tail
M502-7010942			Push Push with Card Lock Function	28.00	3.30	5000 Min.	Gold at contact , Tin at Solder tail
M502-7840942			MANUAL Type with 0.00mm Standoff	27.40	3.40	10000	Gold
M502-7850942			MANUAL Type with 0.00mm Standoff W/ Card protection function	27.60	3.05	5000 Min.	
M503-3382442			Smart Media		MANUAL Type with 0.00mm Standoff W/ Card protection function	40.40	3.19

Kindly check with sales if requirement different from above standard



INTERCONNECT DESIGN & MANUFACTURE

Selection category

Memory Connector

Series	Memory Type	Mounting	Feature	Width mm	Height mm	Durability Cycles	Finish Plating
M503-4501842	XD	SMT	Stardoff Height 0.1 , 1.3 , 2.1 mm	28.45	2.00	5000 Min.	Gold at contact , Tin at Solder tail
M506-5582042	Memory Stick		Standard	28.00	4.40		
M509-5381142	Mini SD			24.00	2.63		
M509-5391142			Push-Push	24.90	1.54		
M509-5421145			Push-Push , Reverse Type	25.00	2.15		
						Gold	

Kindly check with sales if requirement different from above standard

Sim Card Connector

Series	Mounting	Pins	Feature	Post	Width mm	Height mm	Durability Cycles	Finish Plating
M508-110645	SMT		Non-Switch	Without	8.50	0.50	20000	Gold
M508-1150645					8.70	1.80	10000	
M508-2310642			6	Flip LockCover	With Without	17.20	2.30	5000 Min.
M508-2320642		8		Flip Lock Cover	With			
M508-2310842			6	Flip Lock Cover with switch	Without / With		2.50	
M508-24X0642		6 OR 8	Flip Lock Cover with switch	3.00		10000	Gold	
M508-25XXX45		6 OR 8	Push in/Out	Without	23.45			3.10
M508-320XX45R								

Kindly check with sales if requirement different from above standard

Combo Micro SD with Sim Card Connector

Series	Mounting	Pins	Feature	Post	Width mm	Height mm	Durability Cycles	Finish Plating
M508-8201842	SMT	6	Push push with sim card Hinge Type	With	16.85	2.70	5000 Min.	Selective Gold and Tin

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HARWIN

INTERCONNECT DESIGN & MANUFACTURE

Selection category

I/O and Mini USB

Series	Type	Mounting	Post	Pitch	Width mm	Height mm	Pins	Finish Plating
M701-340542	B	SMD	With	0.8	7.70	4.00	5	Selective Gold and Tin
M701-350542	AB	Vertical	Without	1.6	7.74	3.95	5	Gold at contact , Tin at Solder tail
M710-9352205	Cellular	SMT	With	0.50	7.20	4.80	22	Gold
M710-9362405							24	Gold

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DC Power and Phone Jack

Series	Mounting	Pins	Center pin Diameter mm	Width mm	Height mm	Durability Cycles	Finish Plating
M705-7X0046	SMT	3	2.00 / 2.50	13.00	15.70	5000 Min.	Tin
M705-810046			2.80	5.00	5.00		
M706-20X0746		7	2.50	7.80	3.40		Gold
M706-2100645							
M706-50X0445		4	3.50	6.00	5.00		Tin
M706-5090546R		5	2.50	6.80	3.00		Gold
M706-5100646R		6	2.50		3.10		
M706-7101245		12	2.50	11.80	3.40		

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Switch

Series	Pins	Mounting	Operating Force	Width mm	Height mm	Durability Cycles
M801-3001100	4	SMT	160+/-50G	5.20	0.80	100000
M801-31X0X00R			160+/-50G / 260+/-50G	6.20	4.30,5.0,7.00,7.30, 9.50,13.00	200000 = 160gf , 100000 = 260gf
M802-2001X00R			160+/-50Gf / 220+80 / -70gf	3.50	1.65	100000
M802-2200400R			160+/-50Gf	2.50	3.50	100000

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Selection category

Battery Connector

Series	Pitch	Pins	Mounting	Operating Force	Width mm	Height mm	Durability Cycles	Finish Plating
P20-0245R	2.40	2	SMT	110g +/- 20%	2.70	5.0	10000	Gold
P20-0345R	2.50	3		120g +/- 20%	2.30	4.20		
P20-0445R	2.50	4		2.50				
P20-0545R	2.54	5		80g +/- 20%	4.50	5.50		
P20-3000245	2.50	2		120g +/- 20%	2.50	4.50		
P30-0345R	3.0	3		110g +/- 20%	2.50	8.50		

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RF Connector

Series	Cable Diameter	Mounting	Withdrawl Force	Width mm	Connection Diameter	Finish Plating
UMCP-3110005	1.13	Cable	0.15N	2.90	2.50	Gold
UMCP-8020005	0.81			2.75	2.40	Silver on Shell , Gold on center pin
UMCP-1800005				3.0	2.60	Gold
UMCP-3010005	1.32			2.90	2.50	
UMCR-1150005R	0.81			2.75	2.40	Silver on Shell , Gold on center pin

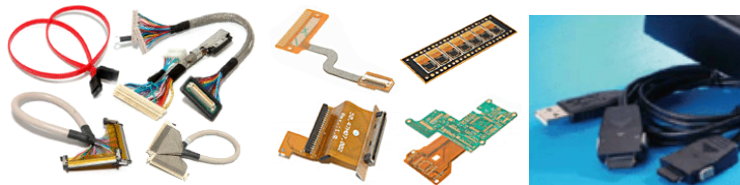
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COAXIAL Connector

Series	Connection Diameter	Mounting	Width mm	Height mm	Finish Plating
UMCR-1150005R	2.10	SMT	2.60	11.50	Gold on Shell , Silver on center pin
UMCS-1090005R			3.00	1.75	Gold
UMCR-1250005R	2.0		2.60	1.25	
UMCR-2250005R			3.00	1.23	

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Cable assembly , Flexible Printed Circuit , RF cable Assemblies , standard or customize cable Harness are available as well



Please contact Harwin or email to sales@harwin.com.sg for order information or customize design.