

# HARWIN

## INTERCONNECT DESIGN & MANUFACTURE

### Introduction Of Harwin Outstanding Innovation To Set-Top Box Application

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

Harwin's extensive range of board and I/O connectors will virtually be able to cover all your needs and demands for most connectors used in the Set-Top Box design.

### 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



Fine Pitch Board To Board



Low Profile FPC/FFC



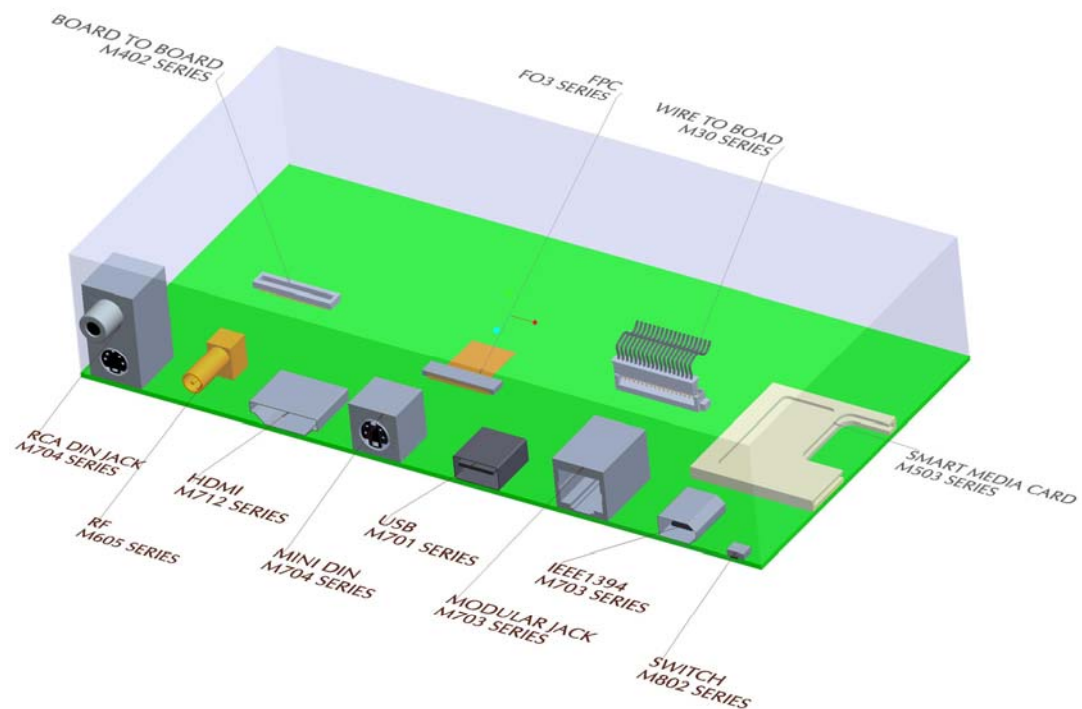
I/O Interface



USB Connector



D-Sub Connector





Set-Top Box Application

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## **Board To Board (Signal)**



### **M403 Series – 0.4mm Pitch**

Part Number	Image	Description
M403-830XX45E		0.4mm Pitch Female Receptacle Stack Height: 0.9mm
M40-835XX45R		0.4mm Pitch Male Receptacle Stack Height: 0.9mm

### **M402 Series – 0.5mm Pitch**


Part Number	Image	Description
M402-FX-XX05R		0.5mm Pitch Female Receptacle Stack Ht: 1.5mm to 2.5mm
M402-MX-XX05R		0.5mm Pitch Male Plug Stack Ht: 1.5mm to 2.5mm

### **M402V Series – 0.5mm Pitch**




Part Number	Image	Description
M402VF-3-XXX-XXNR		0.5mm Pitch Female Receptacle Stack Ht: 2.0mm to 17.5mm
M402VM-3-XXX-XXNR		0.5mm Pitch Male Plug Stack Ht: 2.0mm to 17.5mm

## **FPC Connector Signal (Signal)**

### **F03 Series – 0.3mm Pitch**

Part Number	Image	Description
F03-XX21XXR		0.3mm Pitch FPC SMT Horizontal Bottom Contact



### **F05 Series – 0.5mm Pitch**

Part Number	Image	Description
F05E-XX1146R		0.5mm Pitch FPC SMT Horizontal Top Contact
F05E-XX2146R		0.5mm Pitch FPC SMT Horizontal Bottom Contact
F05E-XX3146R		0.5mm Pitch FPC SMT Vertical Contact




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## **F08 Series – 0.8mm Pitch**






Part Number	Image	Description
F08-200XX46		0.8mm Pitch FPC SMT Horizontal Top Contact
F08-210XX46		0.8mm Pitch FPC SMT Horizontal Bottom Contact

## **F10 Series – 1.0mm Pitch**



Part Number	Image	Description
F10-280XX46R		1.0mm Pitch FPC SMT Horizontal Top Contact
F10-290XX46R		1.0mm Pitch FPC SMT Horizontal Bottom Contact
F10-295XX46R		1.0mm Pitch FPC SMT Vertical Contact

## **Wire To Board Connectors**

### **M40 Series – 1.0mm Pitch**

Part Number	Image	Description
M40-110 XX 00		1.0mm Pitch SIL Crimp Housing
M40-120 XX 00		1.0mm Pitch DIL Crimp Housing
M40-1000046		Crimp Contacts
M40-301 XX 46R		1.0mm Pitch Top Entry SMT Wafer
M40-401 XX 46R		1.0mm Pitch Side Entry SMT Wafer










## **HDMI Connectors**

Part Number	Image	Description
M712-31X1942R		HDMI Connector R/A SMT WO Screw
M712-32X1942R		HDMI Connector R/A With Screw



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## **USB Connectors**

<b>Part Number</b>	<b>Image</b>	<b>Description</b>
M701-220442		USB A R/A Single Deck
M701-230842		USB A R/A Double Deck
M701-280442R		USB A SMT
M701-240442		USB A Top Entry
M701-250442		USB A Vertical 90 Degree
M701-320442		USB B R/A
M701-330442		USB B Top Entry
M701-370442		USB B SMT
M701-340542		Mini USB Type 5 Pos

## **Modular Jack**

<b>Part Number</b>	<b>Image</b>	<b>Description</b>
M703-250xx42		Modular Jack DIP
M703-250xx42		Modular Jack SMT





## **IEEE CONNECTORS**

<b>Part Number</b>	<b>Image</b>	<b>Description</b>
M702-230442		IEEE 1394 SMT 4 Pos
M702-230642		IEEE 1394 SMT 6 Pos



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### Switches

Part Number	Image	Description
M801-3001100		SMD Tact Switch, Ht:0.8mm, Force: 160g-Vertical
M801-31X0000R		SMD Tact Switch, Ht:4.3-13mm, Force: 160g/260g-Vertical
M802-2001X00R		SMD Tact Switch, Force: 220g-Horizontal
M803-2100200		DIP Tact Switch

### Mini Din

Part Number	Image	Description
M704-440442		Shielded Mini Din 4 pins
M704-440646		Mini Din Jack 6 pins

### RF Connectors

Part Number	Image	Description
M605-1500005		SMA RF Connector
M605-2100005		SMA R/A RF Connector



Harwin is one of the top OEM manufacturers for customized cable assemblies and wire harness offering wide range of application know-how solutions catering to your requirements

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