

A compact and low cost solution to extend the life of your SMEMA based SMT electronic assembly equipment.



### High Level Specification

- Single Lane SMT Assembly Production  
[AUSTIN - Dual Lane available (B5145A55)]
- Length 109 x Width 62 x Height 55 - Weight 227 grams
- 2GB RAM, 32GB Storage, Linux Single-Board Computer
- 5 Volt 3 Amp Supply via USB-C  
[Optional industrial 24v step down PSU available]
- RJ12 Plug to SMEMA Plug or Socket Dongles  
[Optional accessory]
- RS232 Serial Port for Scanner/Conveyor Integration
- SMEMA and Hermes status indicators
- Real Time Clock for accurate data logging
- WiFi Access Point for remote setup and monitoring
- Audible indicator
- Active Cooling
- Din Rail, Magnetic or Wall Mount
- User Interface via Web Browser

### Typical Applications

- SMEMA Hermes Adaptor<sup>1</sup>
- SMEMA Hermes Gateway<sup>1</sup>
- SMEMA Hermes Bridge<sup>1</sup>
- SMT Equipment Integration
- SMT Scanstation<sup>2</sup>
- SMEMA Interlocking<sup>2</sup>
- SMEMA IPC-CFX Adaptor<sup>2</sup>
- Data Logging<sup>2</sup>
- Data Exchange<sup>2</sup>
- MES Interlocking<sup>2</sup>
- General I/O

<sup>1</sup> Alternative Terminology

<sup>2</sup> With additional MultiPlug Extensions (Software) and configuration or new software development provided by 4IR.UK at cost.



Not to be used in safety critical situations.  
Always use the attached machine's Emergency Stop when servicing the attached machine.

### IPC-HERMES-9852 Data Standard Supported Features

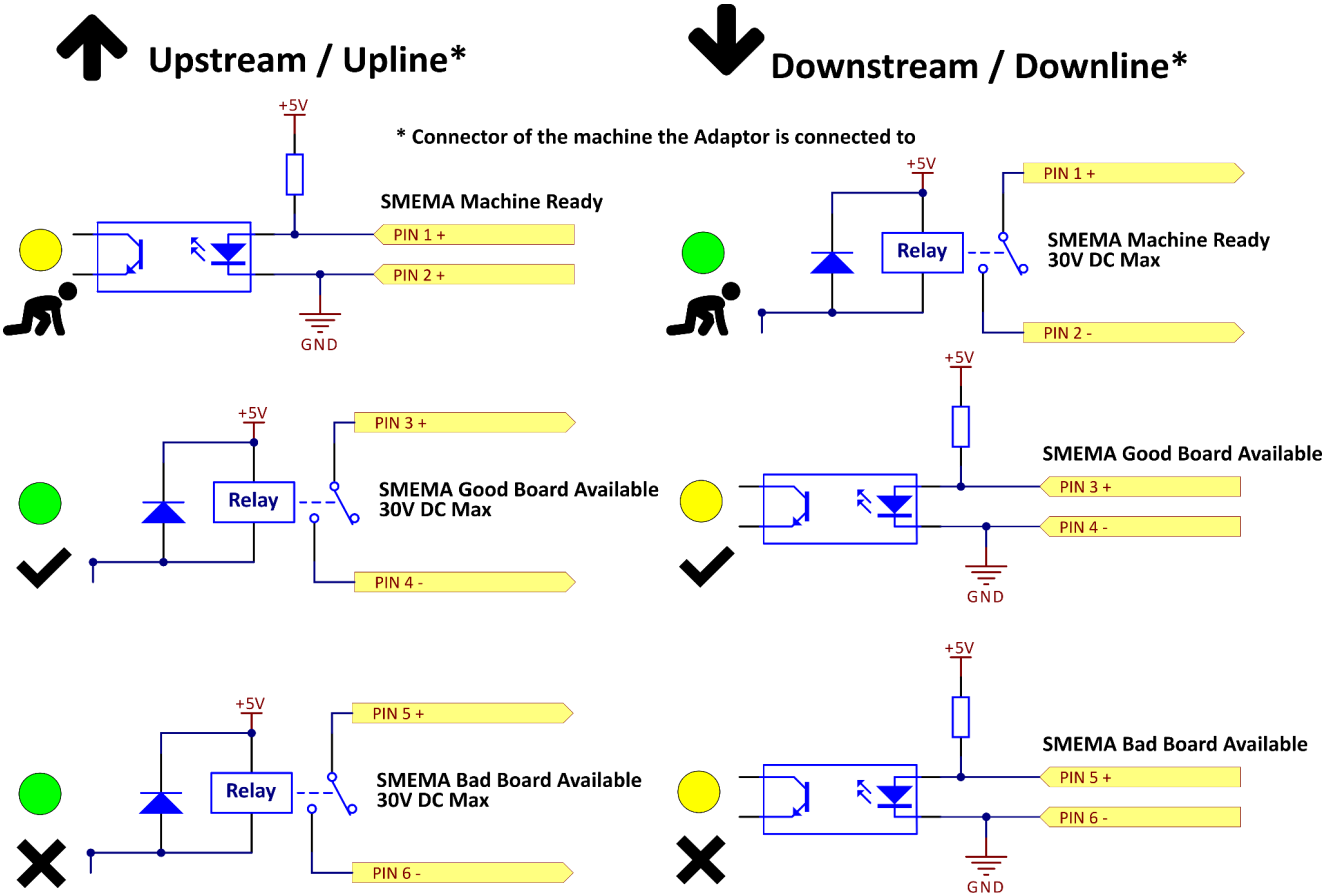
Version 1.4

- <https://github.com/Industry4/MultiPlug.Ext.Hermes/wiki#what-is-supported>

## Hardware Specification

Size	Length 109 x Width 62 x Height 55 - Weight 227 grams
Single Board Computer	2GB RAM, 32GB SD Card Storage. Raspberry Pi OS (Debian Linux)
Network	Ethernet or WiFi. WiFi Access Point for remote setup and monitoring
Input voltage	5 Volt 3 Amp Supply via USB-C
Connectors	2 x RJ12 SMEMA Sockets. 2 x USB 3.0 2 x USB 2.0
Indicators	SMEMA and Hermes status and audible alarm indicator
Buttons	Shutdown / Restart
Data	9 Pin Male RS232 Serial Port
SMEMA Switching Max	30V DC
Mount	Din Rail, Magnetic or Wall
Real Time Clock	Yes
Cooling	Active
Conformity	CE UKCA RoHS WEEE Country Of Origin: GB

## SMEMA Schematic of RJ12 Socket



## Software Included

Name	Licence	Description
MultiPlug	Proprietary - 1 Included	.Net Edge Computing Platform
Multiplug.Ext.Hermes	Proprietary - 1 Included	Manage 1+ Hermes Lanes
Multiplug.Ext.Network.Sockets	Open Source	Connect to or serve Network Sockets
Multiplug.Ext.Ports	Open Source	Read or Write to RS232 Serial Ports
Multiplug.Ext.Raspi.Gpio	Open Source	Read or Write to a Raspberry Pi GPIO
Multiplug.Ext.Raspi.Config	Open Source	Configure a Raspberry Pi
Multiplug.Ext.Hostapd.Config	Open Source	Configure a Wifi Access Point

## Alternative Versions - Hermes, CFX, SMEMA

SL - Single Lane | DL - Dual Lane | RTC - Real Time Clock | RS232 - Male 9 Serial Port

MPN	Product Group	Interface	Description / Features	Available
B5145A42	QUENTIN	IPC-HERMES-9852	SL	Custom Build
B5145A43	QUENTIN	IPC-HERMES-9852	SL RTC	Custom Build
B5145A44	QUENTIN	IPC-HERMES-9852	SL RS232	Custom Build
B5145A45	QUENTIN	IPC-HERMES-9852	SL RTC RS232	Yes
B5145A52	AUSTIN	IPC-HERMES-9852	DL	Custom Build
B5145A53	AUSTIN	IPC-HERMES-9852	DL RTC	Custom Build
B5145A54	AUSTIN	IPC-HERMES-9852	DL RS232	Custom Build
B5145A55	AUSTIN	IPC-HERMES-9852	DL RTC RS232	Low Volume
B5145B65	OSCAR	IPC-CFX-2591	SL RTC RS232	Enquire
B5145B75	JASPER	IPC-CFX-2591	DL RTC RS232	Enquire
B5145E85	CLIVE	IPC-SMEMA-9851	SL RTC RS232	Yes
B5145E95	GEORGE	IPC-SMEMA-9851	DL RTC RS232	Low Volume

The core IPC-Hermes-9852 Multiplug software extension is MultiPlug.Ext.Hermes. It has its own support website at:

<https://github.com/Industry4/MultiPlug.Ext.Hermes/wiki>

## Accessories

- RJ12 to SMEMA Male (Pair) dongles for Direct Machine connections
- RJ12 to SMEMA Female (Pair) dongles for SMEMA Extension cables
- USB-C 5v Power Supply
- Din Rail Mount
- 24v to 5v Step Down PSU
- USB-C Male to 5 Pin Female Bolt Screw Shield Terminals Pluggable Adapter
- Power over Ethernet (PoE) USB-C Splitter

## Use Cases

- RS232 Serial Port to be used for SMT Conveyor integration or Scanner
- USB Ports for Barcode Scanner integration

## MultiPlug

This product is based on the MultiPlug Edge Computing Platform making it highly configurable.

<https://www.multiplug.app>

## Also see FAQs:

Manufacturer's Website: <https://www.4ir.uk/products/smema-hermes-adaptor/>

Brochure Website: <https://www.the-hermes-standard-smema-adaptor.info/>

Support Website: <https://github.com/Industry4/SMEMA-Hermes-Adaptor/wiki>

MultiPlug.Ext.Hermes Support Website: <https://github.com/Industry4/MultiPlug.Ext.Hermes/wiki>

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