

# QUENTIN

## SMEMA Hermes Adaptor Mk3 - Single Lane SMT - RS232 - RTC (BSI4SH45)

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 (BSI4SH55)]
- Length 109 x Width 62 x Height 55 - Weight 227 grams
- 2GB RAM, 32GB Storage, Linux Single-Board Computer
- 5 Volt 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 Conveyor Integration
- SMEMA and Hermes status indicators
- Real Time Clock for accurate data logging
- WiFi Access Point for remote setup and monitoring
- Audible indicator and Active Cooling
- Din Rail, Magnetic or Wall Mount

Not to be used on safety critical situations

### Typical Applications

- SMEMA Hermes Adaptor
- SMEMA Hermes Gateway
- SMEMA Hermes Bridge
- SMT Equipment Integration
- SMT Scan Station\*
- SMEMA Interlocking\*
- SMEMA IPC-CFX Adaptor\*
- Data Logging\*
- Data Exchange\*
- MES Interlocking\*
- General I/O

\* With additional MultiPlug Extensions (Software) and configuration.

### IPC-HERMES-9852 Standard Supported Features

#### Version 1.3

- 2.3 Machine-to-Machine communication (horizontal channel)

### IPC-HERMES-9852 Standard Unsupported Features

- 2.4 Remote configuration
- 2.5 Communication with supervisory system (vertical channel)

Remote configuration can currently be achieved via a Web Browser based User Interface. This functionality is likely to be included in Multiplug.Ext.Hermes.Config

## Hardware Specification

<b>Size</b>	Length 109 x Width 62 x Height 55 - Weight 227 grams
<b>Single Board Computer</b>	2GB RAM, 32GB Storage. Linux
<b>Network</b>	Ethernet or WiFi. WiFi Access Point for remote setup and monitoring
<b>Input voltage</b>	5 Volt Supply via USB-C
<b>Connectors</b>	2 x RJ12 SMD sockets. 2 x USB 3.0 (1 used) 2 x USB 2.0
<b>Indicators</b>	SMD and Hermes status and audible alarm indicator
<b>Buttons</b>	Shutdown / Restart
<b>Data</b>	9 Pin Male RS232 Serial Port
<b>SMD Switching Max</b>	30V DC
<b>Mount</b>	Din Rail, Magnetic or Wall
<b>Real Time Clock</b>	Yes
<b>Cooling</b>	Active

## Alternative Versions

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

ID	Product Group	Interface	Description / Features	Available
BSI4SH42	QUENTIN	IPC-HERMES-9852	SL	Custom Build
BSI4SH43	QUENTIN	IPC-HERMES-9852	SL RTC	Custom Build
BSI4SH44	QUENTIN	IPC-HERMES-9852	SL RS232	Custom Build
BSI4SH45	QUENTIN	IPC-HERMES-9852	SL RTC RS232	Yes
BSI4SH52	AUSTIN	IPC-HERMES-9852	DL	Custom Build
BSI4SH53	AUSTIN	IPC-HERMES-9852	DL RTC	Custom Build
BSI4SH54	AUSTIN	IPC-HERMES-9852	DL RS232	Custom Build
BSI4SH55	AUSTIN	IPC-HERMES-9852	DL RTC RS232	Custom Build
BSI4SX65	OSCAR	IPC-CFX-2591	SL RTC RS232	Enquire
BSI4SX75	JASPER	IPC-CFX-2591	DL RTC RS232	Enquire

## Software Included

Name	License	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

## 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
- 24v to 5v Step Down PSU

## Use Cases

- RS232 Serial Port to be used for SMT Conveyor integration
- 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:

<https://www.4ir.uk/products/smema-hermes-adaptor/>

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

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

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