# QUENTIN

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

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



### 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.

### 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

### 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

| | |
|---|---|
| Size | Length 109 x Width 62 x Height 55 - Weight 227 grams |
| Single Board Computer | 2GB RAM, 32GB Storage. Linux |
| Network | Ethernet or WiFi. WiFi Access Point for remote setup and monitoring |
| Input voltage | 5 Volt Supply via USB-C |
| Connectors | 2 x RJ12 SMEMA Sockets. 2 x USB 3.0 (1 used) 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 |

## 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
- Din Rail Mount
- 24v to 5v Step Down PSU
- USB-C Male to 5 Pin Female Bolt Screw Shield Terminals Pluggable Adapter

## 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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