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.

Typical Applications

- SMEMA Hermes Adaptor
- SMEMA Hermes Gateway
- SMEMA Hermes Bridge
- SMT Equipment Integration
- SMT Scan Station*
- SMEMA Interlocking*
- SMEMA IPC-CPX 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	Hermes	SL	Custom Build
BSI4SH43	QUENTIN	Hermes	SL RTC	Custom Build
BSI4SH44	QUENTIN	Hermes	SL RS232	Custom Build
BSI4SH45	QUENTIN	Hermes	SL RTC RS232	Yes
BSI4SH52	AUSTIN	Hermes	DL	Custom Build
BSI4SH53	AUSTIN	Hermes	DL RTC	Custom Build
BSI4SH54	AUSTIN	Hermes	DL RS232	Custom Build
BSI4SH55	AUSTIN	Hermes	DL RTC RS232	Custom Build
BSI4SX65	OSCAR	IPC-CFX	SL RTC RS232	Inquire
BSI4SX75	JASPER	IPC-CFX	DL RTC RS232	Inquire

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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