# Production ISP Programming Tools for SIGMA Z-Wave modules and ICs



for

**SIGMA DESIGNS**

*Z-Wave® Modules and ICs*

| Author | Date | Version number |
|---|---|---|
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# Contents

# Sigma - Z-Wave - Production ISP Programming Tools - Overview

| | ISPquad | ISPjuno | ISP-nano-Zwave500-Dev1 | ISP-nano-Zwave500-RT1 | ISP-nano-Zwave500-SM1 |
|---|---|---|---|---|---|
| **Order Code** | **ISPquad-Zwave** | **ISPjuno-Zwave** | **ISPnano-Zwave500-DEV1** | **ISPnano-Zwave500-RT1** | **ISPnano-Zwave500-SM1** |
| **Description** | **Portable standalone mode programmer** | **Portable standalone mode programmer** | **Development / Rework System inc. SDK** | **Run-time System** | **Standalone mode programming system** |
| **Comments** | Only supports **'manual operator mode'** via keypad | Only supports **'manual operator mode'** via keypad | Fully featured PC controlled system capable of both programming and calibration. | Equivalent to **DEV1** system except it is non-configurable. No technical support included. | Only supports **'standalone programming mode'.** |
| **Typical application(s)** | Low volume - manual operator production | Low volume - manual operator production | High volume production e.g. Configuration / Rework station | High volume production | ICT or Programming Fixture with no PC control |
| **Technical support included** | Limited email support | Limited email support | Full telephone and email support | Limited email support | Limited email support |
| **Availability** | Q1 2015 | Q1 2015 | NOW | NOW | NOW |

# Sigma - Z-Wave - Production ISP Programming Tools - Overview

| | ISPquad | ISPjuno | ISP-nano-Zwave500-Dev1 | ISP-nano-Zwave500-RT1 | ISP-nano-Zwave500-SM1 |
|---|---|---|---|---|---|
| **Standalone Mode Control Methods supported** | | | | | |
| Standalone Operator Mode (Keypad) | ☑ | ☑ | ☑ | ☑ | ☑ |
| Standalone Mode - Lid Switch triggered | ☒ | ☒ | ☑ | ☑ | ☑ |
| Standalone Mode - 4-Wire TTL port control | ☒ | ☒ | ☑ | ☑ | ☑ |
| **PC Control Methods supported** | | | | | |
| Development Mode (EDS) | ☑ | ☑ | ☑ | ☑ | ☑ |
| ASCII Control Protocol | ☒ | ☒ | ☑ | ☑ | ☑ |
| ISP-PRO - PC Controlled Production Mode | ☒ | ☒ | ☑ | ☑ | Upgrade |
| Console EDS (PC controlled) | ☒ | ☒ | Upgrade | Upgrade | Upgrade |
| ActiveX (PC controlled) | ☒ | ☒ | Upgrade | Upgrade | Upgrade |
| **Device Support Libraries** | | | | | |
| Sigma Z-Wave 100 / 200 / 300 Series | ☑ | ☑ | Upgrade | Upgrade | Upgrade |
| Sigma Z-Wave 500 Series | ☑ | ☑ | ☑ | ☑ | ☑ |
| Serial SPI memories (external Z-Wave NVM) | Upgrade | Upgrade | Upgrade | Upgrade | Upgrade |
| **Z-Wave 500 series - custom Programming Features** | | | | | |
| Program fixed values into NVR Area | ☑ | ☑ | ☑ | ☑ | ☑ |
| Program variable values into NVR Area e.g. 'serial numbers' and 'USB Identifiers' | ☒ | ☒ | ☑ | ☑ | ☒ |
| Recover NVR Area data if erased or corrupt | ☒ | ☒ | ☑ | ☑ | ☒ |
| Datalogging of NVR parameters | ☒ | ☒ | ☑ | ☑ | ☒ |
| **'Tx Calibration'** support | ☒ | ☒ | ☑ | ☑ | ☒ |
| **'Crystal (XTAL) Calibration'** support (Requires optional IOMOD10 module) | ☒ | ☒ | Upgrade | Upgrade | ☒ |
| **Programming Channels / Standalone Projects** | | | | | |
| Programming channels as standard | 1 | 1 | 1 | 1 | 1 |
| Programming channels expandable to | - | - | 32 | 32 | 32 |
| Number of Standalone Programming Projects | 4 | 64 | 64 | 64 | 64 |
| **Software included** | | | | | |
| **EQTools** - Programmer configuration software | ☑ | ☑ | ☑ | ☑ | ☑ |
| **ISP-PRO** - Production ISP software | ☒ | ☒ | ☑ | ☑ | ☒ |

# ISPnano Series4-ATE System Contents

| | ISP-nano-Zwave500-DEV1 | ISP-nano-Zwave500-RT1 | ISP-nano-Zwave500-SM1 |
|---|:---:|:---:|:---:|
| **Hardware** | | | |
| 1 x ISPnano S4ATE programmer -including Z-Wave 500 Series device library | ☑ | ☑ | ☑ |
| 3 x Programmer mounting brackets | ☑ | ☑ | ☑ |
| 1 x IOMOD7 connector module (as standard) | ☑ | ☑ | ☑ |
| 1 x Mains Power Supply adaptor (9V DC reg. 1700 mA) | ☑ | ☑ | ☑ |
| **Cables** | | | |
| **Cable kit comprising** | ☑ | ☑ | ☑ |
| - USB cable | ☑ | ☑ | ☑ |
| - RS232 cable | ☑ | ☑ | ☑ |
| - DC power cable | ☑ | ☑ | ☑ |
| **ISP ribbon cables** | | | |
| - 16-way | ☑ | ☑ | ☑ |
| - 10-way | ☑ | ☑ | ☑ |
| - 6-way | ☑ | ☑ | ☑ |
| - 20-way | ☑ | ☑ | ☑ |
| **Software components included** | | | |
| **EQTools – programmer configuration software** | ☑ | ☑ | ☑ |
| - EDS (Development mode) | ☑ | ☑ | ☑ |
| - Project Manager | ☑ | ☑ | ☑ |
| - Upload Wizard (for uploading standalone projects) | ☑ | ☑ | ☑ |
| - Script Builder / Debugger | ☑ | ☒ | ☒ |
| | | | |
| **ISP-PRO – production ISP control software** | ☑ | ☑ | ☒ |
| - ISP-PRO - Script run-time license | ☑ | ☑ | ☒ |
| - Remote Application Control - run-time license | ☑ | ☑ | ☒ |
| **Miscellaneous** | | | |
| 4 x Rubber mounting feet (separate packet) | ☑ | ☑ | ☑ |
| ISPnano Series IV - Programmer User Manual | ☑ | ☑ | ☑ |

# ISPquad and ISPjuno System Contents

| | ISPQUAD | ISPJUNO |
|---|:---:|:---:|
| **Hardware** | | |
| 1 x ISPnano S4ATE programmer -including Z-Wave 500 Series device library | ☑ | ☑ |
| 3 x Programmer mounting brackets | ☑ | ☑ |
| 1 x IOMOD7 connector module (as standard) | ☑ | ☑ |
| 1 x Mains Power Supply adaptor (9v dc reg 1700mA) | ☑ | ☑ |
| **Cables** | | |
| 1 x Cable kit comprising | ☑ | ☑ |
| - USB cable | ☑ | ☑ |
| - RS232 cable | ☑ | ☑ |
| - DC power cable | ☑ | ☑ |
| ISP Cables | | |
| - 16-way | ☑ | ☑ |
| - 10-way | ☑ | ☑ |
| - 6-way | ☑ | ☑ |
| - 20-way | ☑ | ☑ |
| **Software** | | |
| 1 x EQTools – programmer configuration software | ☑ | ☑ |
| - EDS (Development mode) | ☑ | ☑ |
| - Project Manager. | ☑ | ☑ |
| **Miscellaneous** | | |
| 4 x Rubber mounting feet (separate packet) | ☑ | ☑ |
| Hardware User Manual | ☑ | ☑ |