Combining USB and Ethernet into one debug probe

S32 Design Studio S32 Debug Probe

OVERVIEW

The S32 Debug Probe enables NXP target system debugging via standard debug port while connected to a developer's workstation via Ethernet or USB. The S32 Debug Probe is also known by such industry-standard terms as probe, JTAG probe, JTAG emulator or target probe.

Using S32 Debug Probe's Ethernet connection, developers can debug systems remotely or more effectively share a single system with multiple developers. When a shared system is not needed, the S32 Debug Probe connects directly to the developer's workstation with a single USB cable. The USB port supplies power so that no additional cables are needed.

The S32 Debug Probe is designed to work in conjunction with S32 Design Studio and NXP automotive microcontrollers and processors. It is a critical debug tool in all phases of project development.

FEATURES

- Allows either USB or Ethernet (10/100) host connection for the developer workstation
- USB powered, even when using Ethernet
- Supports debugging via JTAG interface
- Automatically supports system voltage levels from 1.2 to 3.3
- Supports all available core speeds and voltages for supported NXP automotive microcontrollers and processors
- In conjunction with the S32 Design Studio, S32 Debug Probe:
  - Programs system flash memory during debug and development phases of the project
  - Controls the target development system even when the system may have crashed during develop-ment
  - Offers complete system visibility and control, including reading/writing of CPU registers, memory-mapped registers, block reading/writing of memories, single-step debugging, setting software and hardware breakpoints, and monitoring target system status
  - Gives control over the target system execution, including control of one or all cores and resets

CONTACT NXP FOR INFORMATION REGARDING:

- Integrating S32 Debug Probe into your software
- Utilizing this probe as your target debug probe

SYSTEM REQUIREMENTS

- 10/100 Ethernet or USB on host computer
- Debug target headers that match the probe tips provided

SUPPORTED DEVICES

- NXP S32V234 vision processor
- NXP S32S safety processor

KIT CONTENTS

- S32 Debug Probe
- USB power supply
- USB cable
- Arm 10-pin probe tip and ribbon cable
- Arm 20-pin probe tip and ribbon cable

* Ethernet cable not included

ORDER INFORMATION

S32 Debug Probe can be ordered at **nxp.com** or from an authorized NXP distributor.

Part number: S32DBGPROBE

S32 DEBUG PROBE

www.nxp.com/S32DebugProbe

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