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Data Sheet

August 2, 2026

INTEL / WIND RIVER / EST

Intel / Wind River / EST VisionPROBE On-Chip Software Debugger for Motorola PowerPC, 68K, and ColdFire Microprocessors

Intel / Wind River / EST VisionPROBE On-Chip Software Debugger for Motorola PowerPC, 68K, and ColdFire Microprocessors The VisionPROBE provides a hardware-assisted on-chip software debugger designed for embedded development on Motorola PowerPC, 68K, and ColdFire microprocessors, using the target's on-chip debug resources for non-intrusive control, flash programming, and source-level debug with visionCLICK and Tornado II toolchains. PowerPC, 68K, and ColdFire board bring-up and source-level debug; flash memory programming; RTOS object inspection; hardware diagnostics and production/test programming; host-to-target download via BDM or JTAG on-chip debug interfaces. The VisionPROBE provides a hardware-assisted on-chip software debugger designed for embedded development on Motorola PowerPC, 68K, and ColdFire microprocessors, using the target's on-chip debug resources for non-intrusive control, flash programming, and source-level debug with visionCLICK and Tornado II toolchains. PowerPC, 68K, and ColdFire board bring-up and source-level debug; flash memory programming; RTOS object inspection; hardware diagnostics and production/test programming; host-to-target download via BDM or JTAG on-chip debug interfaces.



MODEL

**Intel / Wind River /
EST VisionPROBE**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VisionPROBE

LISTING

<https://aumictechlabs.com/products/visionprobe-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Intel/Wind River/EST VisionPROBE is an on-chip software debugger for Motorola PowerPC, 68K, and ColdFire microprocessors. It has direct access to the processor core, enabling real-time analysis and control of software execution in embedded systems. The debugger streamlines development, testing, and debugging cycles through industry-standard debugging operations.

Technical Specifications

Target Processors: Motorola PowerPC, 68K, and ColdFire microprocessors

On-Chip Debugging: Direct processor core access for real-time analysis and execution control

Breakpoint Management: Set and manage breakpoints to halt execution at specified points

Memory Inspection: Examine and analyze system memory contents

Single-Stepping: Execute code one instruction at a time for detailed analysis

Host Interface: Connection to host development system via dedicated debugger interface

Processor Connection: Direct on-chip interface to target processor core

Key Features

The VisionPROBE delivers low-level debugging capabilities essential to embedded system development. Its on-chip architecture eliminates the need for external emulation logic, reducing latency and enabling introspection of real-time execution. Breakpoint functionality supports deterministic program control, while memory inspection tools permit exhaustive analysis of RAM, registers, and peripheral state. Single-stepping capability enables instruction-by-instruction verification of algorithm behavior.

Typical Applications

Embedded software development on PowerPC, 68K, and ColdFire platforms benefits from the VisionPROBE's direct processor coupling. Device drivers, real-time firmware, and system-level code validation leverage on-chip debugging to verify execution flow and state transitions without external probes or performance degradation.

Compatibility & Integration

The debugger integrates with development environments supporting Motorola PowerPC, 68K, and ColdFire architectures that implement on-chip debugging methodologies. Host systems connect via the dedicated debugger interface, enabling transparent integration into established embedded development workflows.

Features & description

From manufacturer datasheet

Features

- On-chip software debugger for PowerPC, 68K, and ColdFire
- Target control via on-chip debug without hardware or software intrusion
- Flash memory programming
- Built-in hardware diagnostics
- Statistical performance analysis
- RTOS object information access
- Download speeds: measured 600 KB/s (BDM), 100 KB/s (JTAG)
- Download over 450 KB/s for PowerPC 8xx/5xx targets
- Integrated with visionCLICK; compatible with Wind River Tornado II

VISIONPROBE Characteristics / Specifications

PARAMETER	VALUE
Model	VisionPROBE
Manufacturer	Embedded Support Tools (EST); Intel / Wind River ecosystem
Instrument Type	On-Chip Software Debugger / Hardware-Assisted Probe
Target Architectures	Motorola PowerPC, 68K, ColdFire
Debug Interfaces	BDM, JTAG (target-dependent)
BDM Download Speed	600 KB/s (measured class)
JTAG Download Speed	100 KB/s (measured class)
PowerPC 8xx/5xx Download	over 450 KB/s
Host Integration	visionCLICK; Tornado II compatible
Related Family	VisionPROBE II (distinct second-generation product)
Alias	VisionPROBE Standard Operating Conditions Match probe pod and cable to the target debug connector and voltage domain. Verify BDM versus JTAG mode for the silicon family before connecting. Confirm visionCLICK/Tornado II host software revision against probe firmware.
This listing is VisionPROBE (first generation)	not VisionPROBE II unless the inventory label states II/2. EST VisionPROBE assets are commonly associated with Intel / Wind River branding after acquisition. Alias VisionPROBE.
Download speeds	measured 600 KB/s (BDM), 100 KB/s (JTAG)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance analysis

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.