

Overview

Vitra-XS is Ashling's Debug & Trace Probe for embedded development with support for multiple target architectures including **Synopsys ARC Processor** powered systems.

Vitra-XS works with **Synopsys' MetaWare Development Toolkit** which is a complete development environment for embedded C/C++ development on ARC® and includes an IDE, Compiler, Debugger and Analysis tools.

Vitra-XS supports:

- Capturing & viewing of program-flow & data-accesses in real-time, non-intrusively
- Program downloading from the host PC to the target embedded system
- Exercising program in the target (go, step, halt, breakpoints, interrogate memory, registers & variables etc)



Vitra-XS Features

- Fast, trouble-free "plug-&-play" installation using *SuperSpeed* USB3.0
- Supports all ARC® EM, EV, HS, NPX and VPX processors with the ARC Real-Time Trace (RTT) module (8-bit or dual 8-bit ports)
- "Soft" **Vitra-XS** FPGA/firmware-based design allows rapid adaptation and configuration for different trace protocols including non-standard
- 38-way Mictor target connector support with adapter support for other connector types
- Detects & automatically configures for the appropriate target voltage (from 1.2V to 3.3V)
- Automatic trace clock & data skew adjustment ("AUTOLOCK") to ensure integrity of captured high-speed data. **Vitra-XS** automatically calibrates itself to your target's trace data port
- Parallel (up to 16-bits data & additional control) trace capture up to 400MHz
- On-board trace storage memory (up to 512MB) which may be configured as a circular buffer to allow continuous trace capture up to a defined event (e.g. a breakpoint)
- Unlimited trace storage supported via high-speed, real-time streaming over *SuperSpeed* USB to host PC hard disk
- Optional Gigabit Ethernet interface & compact form factor
- In addition to the ARC Real-time Trace (RTT) protocol, **Vitra-XS** also supports multi-core, homogenous SoCs using RISC-V (E-Trace & N-Trace trace standards) and Arm (using CoreSight trace standards such as ETM, PTM, STM & CTI) sharing a single debug & trace interface

Order Codes

Product	Order Code
Vitra-XS Debug & Trace Probe (comes with 38-way Mictor debug & trace interface)	VITRA-XS
Optional Gigabit 1000BASE-T Ethernet interface	VITRA-XS-ETH