

## Overview



Ashling's **Opella-XD** is a powerful JTAG debug probe for embedded development on Arm™ RISC cores.

Opella-XD works with Ashling's **RiscFree™** debugger and with other third-party debuggers, open-source GDB based debuggers and Eclipse CDT.

See separate product description sheet for details on **RiscFree** Eclipse based IDE for Arm.

## Opella-XD Arm Features

- Powered by USB interface; no external power-supply required
- Up to 3MB/s download speeds making Opella-XD particularly suitable for large, complex projects
- JTAG, cJTAG, SWD target connection
- Fine-grained adjustment of JTAG clock frequency from 1KHz to 100MHz. Arm RTCK support
- Multi-core support with full JTAG scan-chain configurability
- Heterogeneous multi-core debug support for devices combining Arm with other processor architectures
- Arm AARCH64, AARCH32, THUMB, THUMB, THUMB2 & THUMBEE instruction-set debugging
- Support for all on-chip hardware breakpoints; unlimited number of software breakpoints
- Detects and automatically configures for the appropriate target voltage from 0.9V to 3.6V
- Fast in-target Flash Programming
- Supplied with 20-pin 0.1" Target cable. Optional 10-pin 0.05" adapter
- Operates on Windows and Linux hosts
- Semi-hosting support (allows stdio calls between your target hardware and your host PC)
- Configurable Target-Reset and Test-Port-Reset, under full user control
- Hot-plug support; allows connection to a running target without resetting or halting
- Built-in diagnostics instantly show status of Target, Debug Probe and USB link
- Universal Hardware-Debug platform for all popular target architectures and compilers

### Supported architectures:

- Cortex-A™, Cortex-R™ and Cortex-M™ based devices including heterogeneous multicore debug

## Order Codes

Product	Order Code
Opella-XD for Arm Debug Probe	Opella-XD-Arm
Arm 20-way 0.1" IDC EmbeddedICE debug cable	TPAOP-ARM20
Arm 10-way 0.05" Adapter (used with TPAOP-ARM20)	ADOP-ARM10
RiscFree IDE for Arm Eclipse based Software Development Environment	RiscFree Arm