

VR4120 • VR4122 • VR5432

- Scalable from JTAG/JTAG+eJTAG to full ICE
- 32/64 bit MPU Support
- Up to 200MHz Bus Speed
- Powerful Measurement Capabilities
- High Speed Emulation Memory to 64 MB
- USB/100-BT Host interface
- Sophisticated C/C++ Source Debugger

YDC introduces the brand-new advicePLUS, offering a highly integrated architecture, scalable from basic the JTAG/JTAG+eJTAG tool up to the full featured emulator. advicePLUS fits your every development need at a very affordable starting price.

By utilizing the External Bus Trace unit in addition to eJTAG, advicePLUS allows processor activity to be seen and analyzed in much greater detail, with YDC's easy-to-use yet powerful debugger, microVIEW-PLUS.

**Base System Features**

- Main System Unit Provides system control and Host interface.
- Optional:
  - High Performance Measurement Unit.
  - External Bus Coverage Unit (32/64 MB)
  - Emulation Memory Unit (4/8/16/32/64 MB)

**MPU Specific Unit**

Any combination of JTAG unit, eJTAG unit, External Bus Trace Unit and Full Emulation Unit.

- Optional:
  - Sub Board Block Unit for derivative processor support (Full Emulation Unit)
  - High Performance Coverage Unit.

- External Bus Trace Unit
- External Input unit.
- Event Output Unit
- eJTAG Trace Unit.



**Key Features & Specifications**

- Supports JTAG, eJTAG, External BUS Trace and full featured emulation.
- Features new **microVIEW-PLUS** with full support for various C, C++ and ASM combinations.
- **RTOS Awareness:** Major RTOSs are also supported with 16 powerful event points and extra-deep system call trace 4M samples.
- **Compilers:** Supports GreenHills, GNU and other major C/C++ compilers
- Up to 32 bit and 64 bit microprocessor support
- 200 MHz External BUS/eJTAG support
- 32K Deep trace with 20 ns time-stamping
- Data Logging: 7M samples at 3 usec resolution
- Measurement:
  - Coverage: 32/64 MB space
  - Performance: up to 4 day period Profiler
- Emulation Memory: 8,16,32 or 64 MB.
- Breakpoints: 1024 points with counter
- Events: 16 points with counter
- State Machine: up to 16 states
- Host Interface: 100 BASE-T, USB
- RAM Monitor: 32 points with 0.5 sec resolution

**Ashling Microsystems Ltd.**

Studio 9, Intec Business Park  
Wade Road, Basingstoke RG24 8NE U.K.  
Tel: 01256 811998  
Fax: 01256 811761  
<http://www.ashling.com>  
[advice@ashling.com](mailto:advice@ashling.com)

# YN800

## VR4120, 4122, 5432 series

Large Emulation memory

- External Bus Trace and External Memory Emulation via Dedicated Connector
- Scalable Architecture from JTAG/N-Wire to Fully Featured System

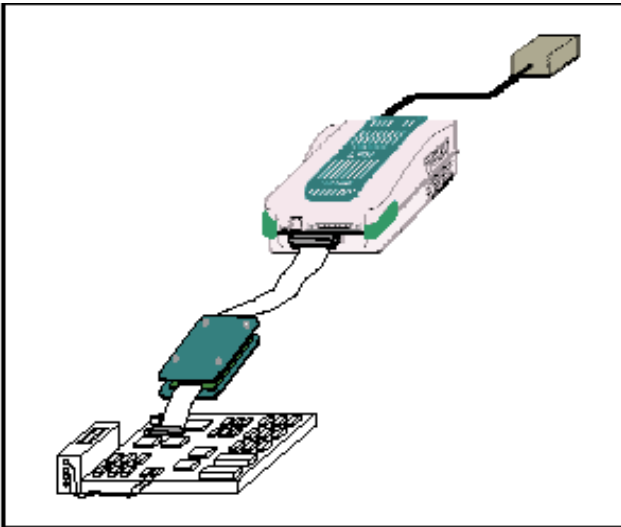
### • Specifications

Target Processor	VR4120, 4122, 5432
Voltage	3.3V±5% (External)
Clock Speed	fmax = 180MHz
Memory Space	No resident space for the emulator
Interrupts	No interrupt is occupied by the emulator
Target System I/F	JTAG I/F: 26pin N-wire Connector ROM Emulation (*1): 120pin dedicated Bus Interface Connector
Emulation Memory	4M/8M/16M (Optional *1) Via 120pin dedicated Bus Interface Connector
Break Function	1024 Software breakpoints 1 Temporally Breakpoint 1 Countable Breakpoint 15 Event Break (With External Bus Trace Unit)
Trace Function	PC Trace (VR5432 only) External Bus Trace (32KB)
User Event	Event: 1 point Trigger: 1 point Trigger Condition Address Match/Unmatch/Range/NOT Range Access Status (R/W/RW) Event Break: 1 point With External Bus Trace: Event: 4 points (6 Events with Data Condition) Trigger: 15 points Trigger Condition: The following AND/OR setting is available. Address Match/Unmatch/Range/NOT Range/Don't Care Access Status (R/W/RW)
Performance Analysis	Supported for External Bus Event
Flash Memory Support	TBA
Host PC	PC/AT Compatible Microsoft Windows 98, Me, NT4.0, 2000 *1 (Windows 95 not supported)
Debugger	microVIEW-PLUS(DN800)
Compiler Supported	Green Hills VR ELF/DWARF1 format (CV1501)
Emulation Access Time	80ns (Min.)
Memory Bus Width	8/16/32bit
Memory Attribute	ROM/RAM

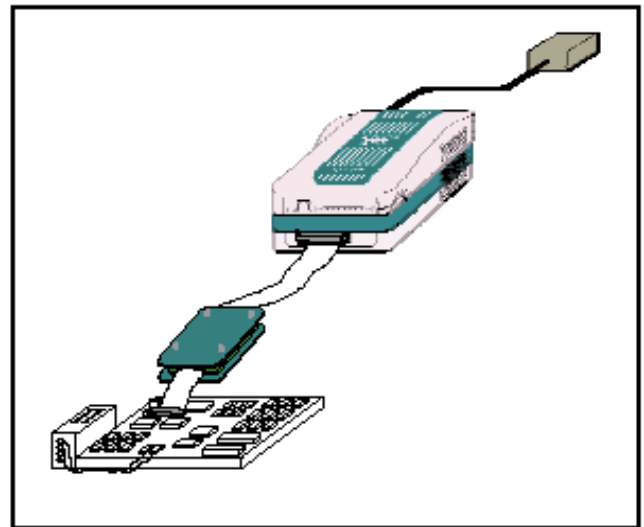
YN800-STD	Power Supply, Host I/F POD Probe Unit N-Wire Probe Cable
YN800-JTP	N-Wire Trace (VR5432 only)
YN800 EM004 EM008 EM016	ROM Emulation with VR series Emulation Adapter Cable 4MB 8MB 16MB
YN800-EXBS	External Bus Trace (for VR4120 SDRAM Trace)
YN800M	EM Adapter

• **System Configuration**

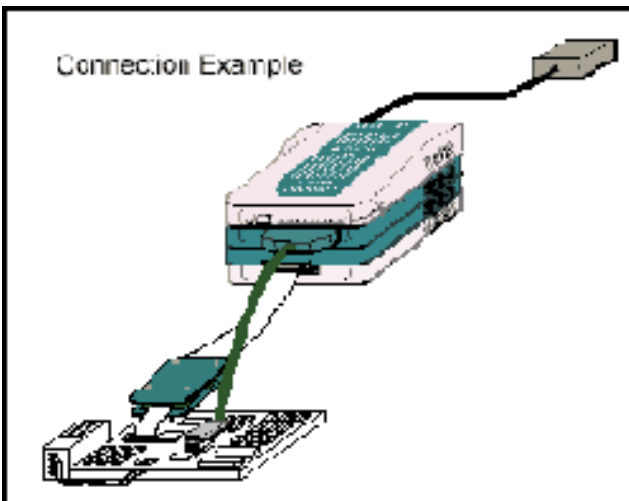
1. N-Wire System (No Trace)  
 VR4120, 4122, 5432



2. N-Wire System (With Trace)  
 VR5432



3. ROM Emulation System Option





## Yokogawa Digital Computer Corporation

US: YCA ICE Divison  
2021 North Capitol Avenue, Suite 104, San Jose, CA 95132  
Tel: 408-941-0130 Fax: 408-941-0121 info@advice-plus.com

Europe: Ashling Microsystems Limited  
Studio 9, Intec Business Park, Wade Road, Basingstoke, Hants, RG24 8NE, U.K.  
Tel: (01256) 811998 Fax: (01256) 811761 Email:advice@ashling.com

Korea: KM Data Inc.  
505-2 DaeRyung Techno-Town, 327-24, Gasan-Dong, Kumcheon-Gu, Seoul, Korea  
Tel: 82-(0)2-3281-0333 Fax:82-(0)2-3281-3117 Email:kmdata@kmd.co.kr

Japan: Yokogawa Digial Computer Corporation  
Tel: +81-42-333-6216 Fax: +81-42-352-6106 Email:info@advice.ydc.co.jp

URL: <http://www.ashling.com>