

## YH640 advice-PLUS for SH7750/7750S/7750R/7760

### Specifications

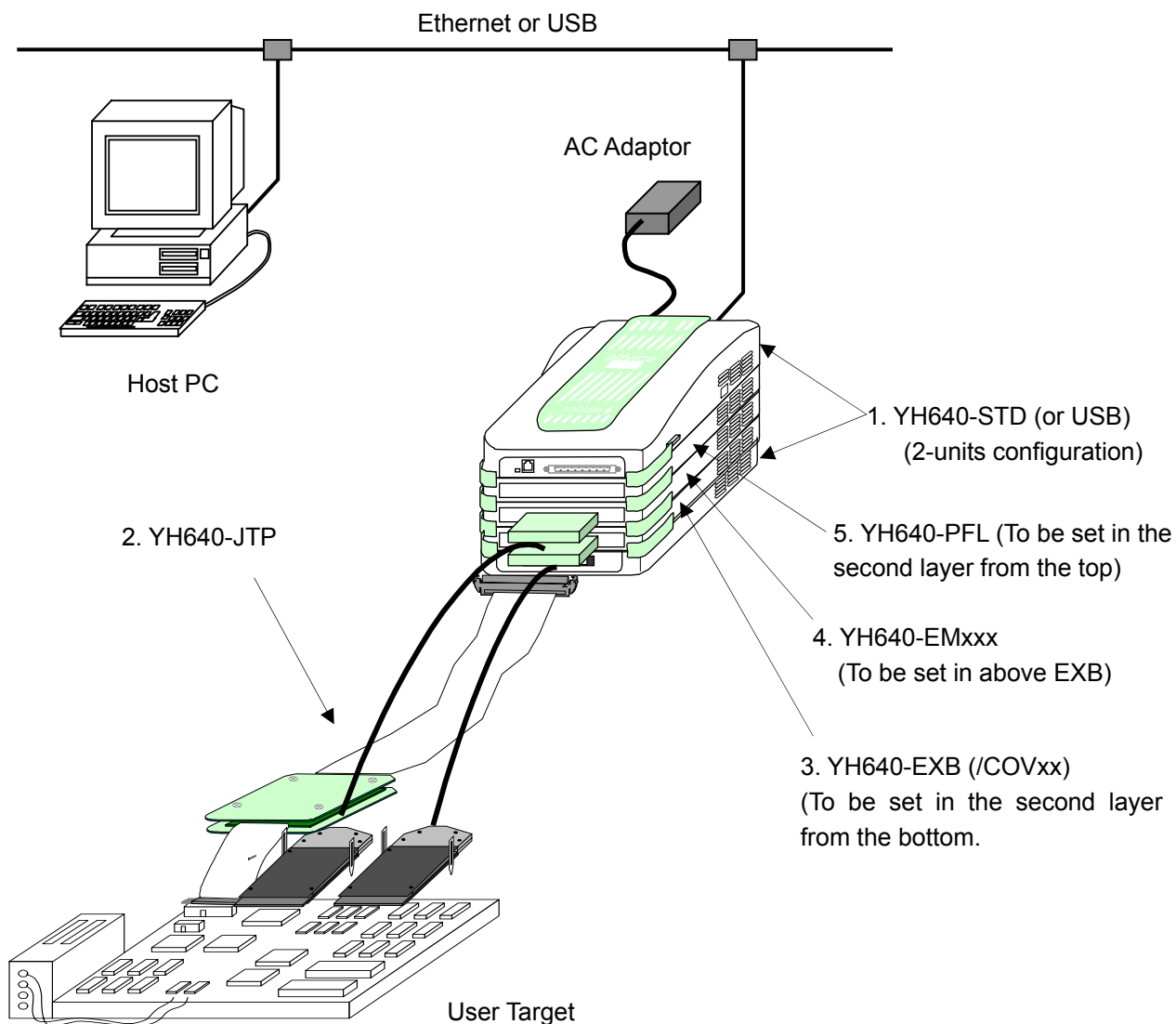
Common Part	
Target Processor	SH7750/7750S/7750R/7760
Operation Voltage	VDDQ: 3.3V ± 5% (3.145V to 3.465V)
Operating Clock	Internal: 240MHz External: 120MHz
Memory Space	All memory space is released to a user's system.
Interrupts	All interrupts are released to a user's system.
Endian	Little Endian/Big Endian are supported
Target System I/F	<ul style="list-style-type: none"> <li>• HUDI Interface (14pin, 2.54mm pitch ) Socket on target: 7614-6002FL (Sumitomo 3M)</li> <li>• External Bus Trace Interface (180pin, 0.5mm pitch) Socket on target: QTH-090-01-L-D-A (Samtec)</li> <li>• External Emulation Interface (180pin, 0.5mm pitch) Socket on target: QTH-090-01-L-D-A (Samtec)</li> </ul>
Software Break	Point break: 1024 points by replacing instructions with software break Countable break: 1 point
Hardware Break	Temporary break: 1 point OCD break: 3 points (Cache, User ROM, Data Access Break) Others: Forced break, Step
OCD Break	3 points maximum (Cache/User ROM:3 points, Data Access Break: 1 point)
Flash Programming	Flash memory programmable with the standard commands (block erasing/programming) of JEDEC (compliant) & INTEL (equivalent) methods is supported.
Trace	Size: 32K Samples Mode: Normal Mode/Multi Sample Mode Time Stamp Resolution: 20ns/100ns
Performance	Range to measure: To be set up with OR condition of Event Range to exclude from measurement: To be set up with OR condition of Event Time resolution: 20ns Time-over /Time-under break
Optional	Coverage: 2MB External Bus Emulation: 4MB / 8MB / 16MB

Other Specifications	
Host PC	PC/AT Compatible, Microsoft Windows 98SE, Me, XP, NT4.0, 2000 10BASE-T/100BASE-TX, USB1.1
Debugger	microVIEW-PLUS (DH640)
Compiler	Hitachi C/C++ compiler Green Hills C/C++ compiler

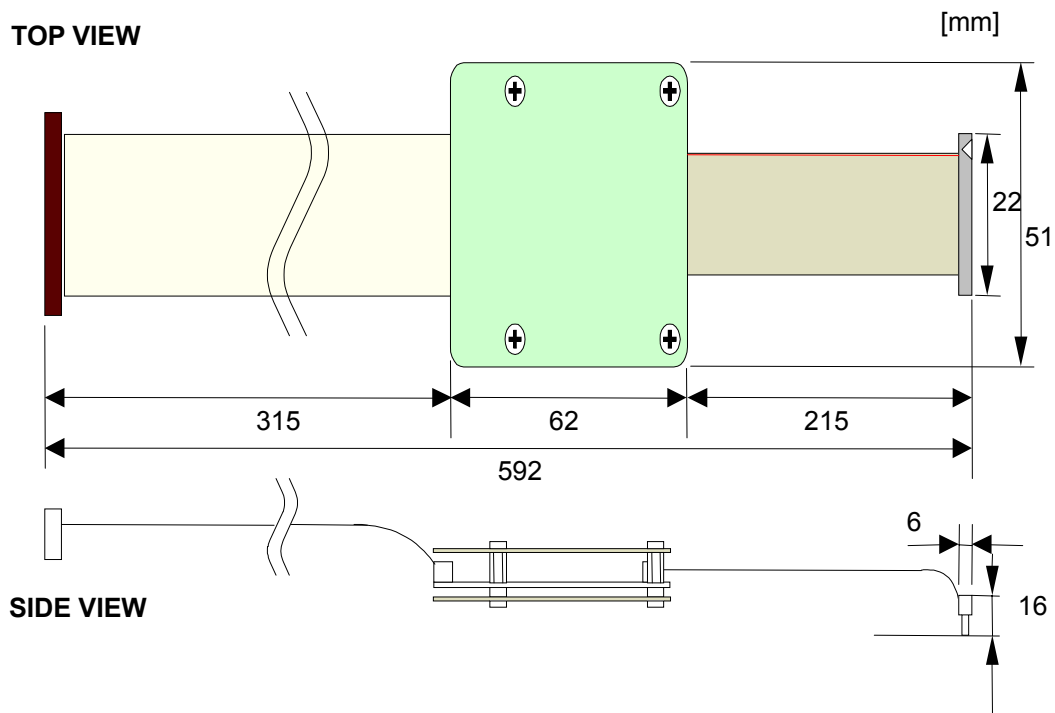
## System Configuration

Model		Description
1	YH640-STD	Main Module for SH7750 series, Ethernet interface, AC adaptor
	YH640-USB	Main Module for SH7750 series, USB interface and cable, AC adaptor
2	YH640-JTP	HUDI-Probe (14-Pin interface)
3	YH640-EXB	External Bus Trace Module, External Bus Capture Cable for 64bit Bus (3.3V)
	YH640-EXB/COV04	External Bus Trace Module, External Bus Capture Cable for 64bit Bus (3.3V), 4MB Coverage
	YH640-EMB/COV08	External Bus Trace Module, External Bus Capture Cable for 64bit Bus (3.3V), 8MB Coverage
4	YH640-EM004	External Bus Emulation Module for SH7750 series (4MB)
	YH640-EM008	External Bus Emulation Module for SH7750 series (8MB)
	YH640-EM016	External Bus Emulation Module for SH7750 series (16MB)
5	YH640-PFL	Profile Module
6	DH640	microVIEW-PLUS for SH7750 series

## System Connection Example



## Probe



## H-UDI Pin Assignment

Pin No.	Signal Name	Pin No.	Signal Name
1	TCK	8	GND
2	/TRST	9	GND
3	TDO	10	GND
4	/ASEBRK/BRKACK	11	TPOW (3.3V)
5	TMS	12	GND
6	TDI	13	GND
7	/RESET	14	GND

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