

# NOVA-7800 Series

Embedded Processor SBC with

LCD/CRT VGA, Audio, LAN, 1394, Video Capture

**Intel Low-Power CPU  
All-in-One Embedded SBC**



NOVA-7800/7810



NOVA-7820



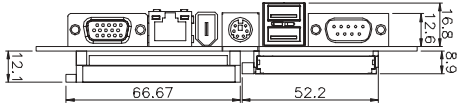
NOVA-7830



4 x RCA Connector Cable

VIN-KIT-01 4 x BNC Connector Board

## Dimensions



**EB-2830 Embedded chassis for NOVA-7800 series**

## SPECIFICATIONS

- Support Embedded SBC: NOVA-7800 series
- Support Power Supply: Equipped with ACE-816A, Optional, ACE-815T, ACE-815C PSU
- Drive bays: Two internal 2.5" HDD drive bays
- Accept one half-size PCI add-on card
- Color: Dark Blue (PANTONE 433C)
- Dimension: 350 mm x 64 mm x 251 mm

## ORDERING INFORMATION

### EB-2830/ACE-816A

Embedded chassis for NOVA-7800 series with ACE-816A

### EB-2830/ACE-815T

Embedded chassis for NOVA-7800 series with ACE-815T

### EB-2830/ACE-815C

Embedded chassis for NOVA-7800 series with ACE-815C

## ORDERING INFORMATION

### NOVA-7800 [B] - C400

Embedded Intel Celeron 400MHz SBC with VGA, Audio, 1394 and Video Capture function

### NOVA-7800 [B] - P800

Embedded Intel PIII 800MHz SBC with VGA, Audio, 1394 and Video Capture function

### NOVA-7810 [B] - P800

Embedded Intel PIII 800MHz SBC with LCD/CRT VGA, Audio, 1394 and Video Capture function

### NOVA-7820 [B] - E400

Embedded VIA EDEN 400MHz SBC with LCD/CRT VGA, Audio, 1394 and Video Capture function

### NOVA-7830 [B]

Intel Socket-370 support Tualatin SBC with LCD/CRT VGA, Audio, 1394 and Video Capture function

[B]: Cable code:

None: ship with one 4 x RCA connector cable kit

B: Ship with one VIN-KIT-01, 4xBNC connector BOard

## SPECIFICATIONS

	NOVA-7800	NOVA-7810	NOVA-7820	NOVA-7830
<b>CPU</b>	Intel® low power PIII 800MHz/ Celeron™ 400MHz	Intel® low power PIII 800MHz	VIA Low power Eden 400MHz	Intel® Socket 370 Tualatin Pentium®III/Celeron, up to 133MHz FSB
<b>System Chipset</b>	Intel®815E+ICH2 PCI 2.2 compliant	Intel®815E+ICH2 PCI 2.2 compliant	Intel®815E+ICH2 PCI 2.2 compliant	Intel®815E+ICH2 PCI 2.2 compliant
<b>Memory</b>	1xDIMM up to 512MB SDRAM (PC 100/133)	1xDIMM up to 512MB SDRAM (PC 100/133)	1xDIMM up to 512MB SDRAM (PC 100/133)	1xDIMM up to 512MB SDRAM (PC 100/133)
<b>CRT Display</b>	Intel®815 chipset AGP 4X V-RAM: Shared with system memory(DVMT) Connector: DB-15 for CRT display	Intel®815 chipset AGP 4X V-RAM: Shared with system memory(DVMT) Connector: DB-15 for CRT display	Intel®815 chipset AGP 4X V-RAM: Shared with system memory(DVMT) Connector: DB-15 for CRT display	Intel®815 chipset AGP 4X V-RAM: Shared with system memory(DVMT) Connector: DB-15 for CRT display
<b>LCD Display</b>	NO	Controller: Smartasic SP1015 Resolution: up to 1024 x 768, 36bit Connector: 50 pin by pin-header	Controller: Smartasic SP1015 Resolution: up to 1024 x 768, 36bit Connector: 50 pin by pin-header	Controller: Smartasic SP1015 Resolution: up to 1024 x 768, 36bit Connector: 50 pin by pin-header
<b>Ethernet</b>	1x10/100Mbps Fast Ethernet(Intel®82562)	1x10/100Mbps Fast Ethernet(Intel®82562)	1x10/100Mbps Fast Ethernet(Intel®82562)	1x10/100Mbps Fast Ethernet(Intel®82562)
<b>SSD</b>	1xCompact Flash, Type II socket	1xCompact Flash, Type II socket	1xCompact Flash, Type II socket	1xCompact Flash, Type II socket
<b>Audio</b>	C-Media 5.1 channels PCI 6W Amplifier	C-Media 5.1 channels PCI 6W Amplifier	C-Media 5.1 channels PCI 6W Amplifier	C-Media 5.1 channels PCI 6W Amplifier
<b>Multiplexer</b>	No	Video-in Multiplexer	Video-in Multiplexer	Video-in Multiplexer
<b>IEEE-1394</b>	2xIEEE-1394a 400MHz ports(TI TSB43AB22)	2xIEEE-1394a 400MHz ports(TI TSB43AB22)	2xIEEE-1394a 400MHz ports(TI TSB43AB22)	2xIEEE-1394a 400MHz ports(TI TSB43AB22)
<b>I/O</b>	2xRS-232 1xLPT 2xUSB1.1 1xFDD 1xATA-100	3xRS-232 1xRS-232/422/485 1xLPT 2xUSB1.1 1xFDD 1xATA-100	3xRS-232 1xRS-232/422/485 1xLPT 2xUSB1.1 1xFDD 1xATA-100	3xRS-232 1xRS-232/422/485 1xLPT 2xUSB1.1 1xFDD 1xATA-100
<b>WDT</b>	Programmable 1~255 seconds system reset	Programmable 1~255 seconds system reset	Programmable 1~255 seconds system reset	Programmable 1~255 seconds system reset
<b>Expansion Slot</b>	1x32bit PCI 1xCard Bus I/F for PCMCIA module	1x32bit PCI 1xCard Bus I/F for PCMCIA module	1x32bit PCI 1xCard Bus I/F for PCMCIA module	1x32bit PCI 1xCard Bus I/F for PCMCIA module
<b>Operation Temperature</b>	0°C~60°C (CPU cooler required)	0°C~60°C (CPU cooler required)	0°C~60°C	0°C~60°C (CPU cooler required)
<b>Relative Humidity</b>	5~95%, non-condensing	5~95%, non-condensing	5~95%, non-condensing	5~95%, non-condensing
<b>Power Consumption</b>	5V@3.5A, 12V@0.18A (PIII 800MHz with 256MB SDRAM)	5V@3.5A, 12V@0.3A (PIII 800MHz with 256MB SDRAM)	5V@3.0A, 12V@0.22A (Eden 400MHz with 256MB SDRAM)	5V@5.0A, 12V@0.076A (PIII 550MHz with 512MB SDRAM)

**Video capture:** 4 x AV input by cable with bracket

- Chip: Conexant Fusion 878A

- Frame speed: 30FPS

- Video format: NTSC/PAL/SECAM

- OS support: Windows 98SE/2000/ME/XP

- Standard equipped with one 4 x RCA connector cable, optional one 4 x BNC