

## Introduction to "ICE FIN"

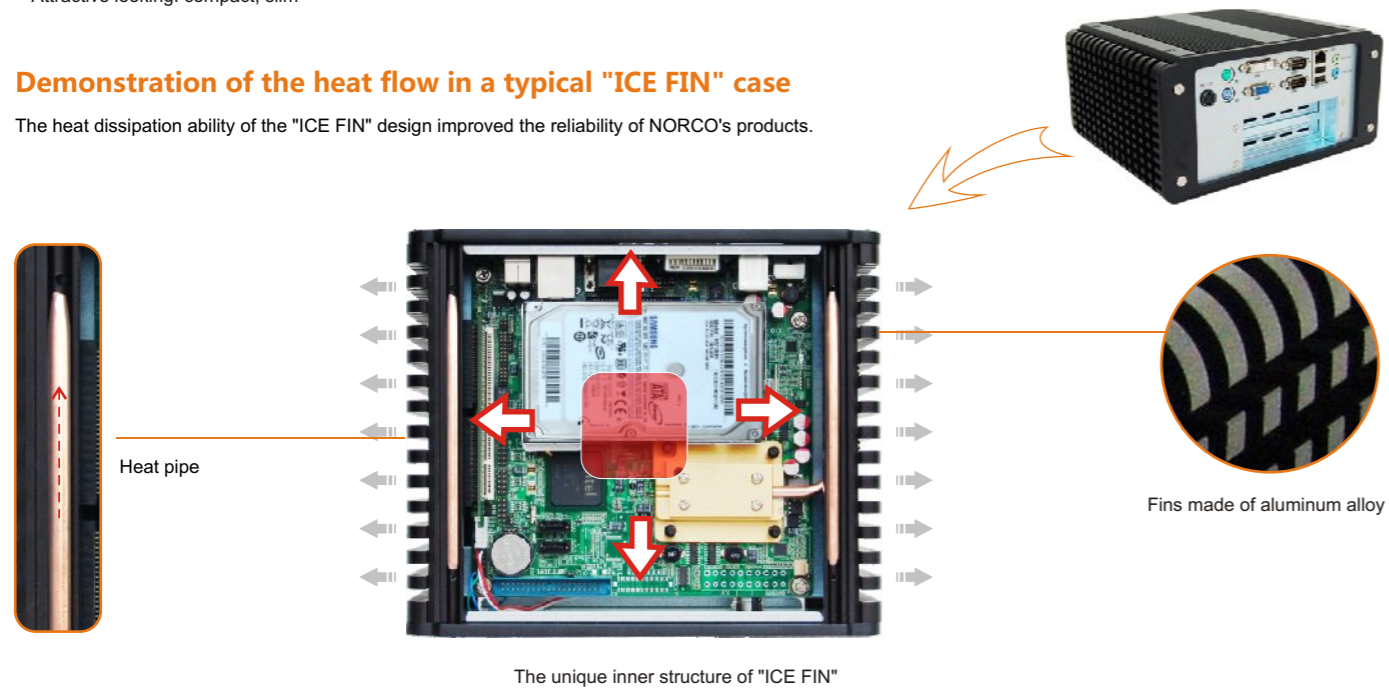
"ICE FIN" products of NORCO feature the unique heat-dissipation solution which consists of a fin-shaped outer layer of the chassis and a group of highly-efficient heat pipes inside it. And our ICE FIN chassis are designed to be fully closed, which effectively prevents dust-accumulation and lowers radiation to the minimum level.

## Features of "ICE FIN" products

- Eco-friendly: lead-free, power-saving
- Quiet: fanless, highly-efficient dissipation of heat, zero noise
- Reliable: 24/7 continuously running without maintenance
- Attractive looking: compact, slim

## Demonstration of the heat flow in a typical "ICE FIN" case

The heat dissipation ability of the "ICE FIN" design improved the reliability of NORCO's products.



# NORCO



## "ICE FIN" Series



### "ICE FIN"

- ICE indicates low energy-consuming. And FIN comes from the fin-like appearance of the chassis, which makes the whole case a "heat-sink".
- The term "ICE FIN" is the name of our innovative heat dissipation technology, and it represents the trend of energy-saving of IT industry.

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## AFC-6572 Fanless embedded PC with many serial ports, based on Intel Atom processor

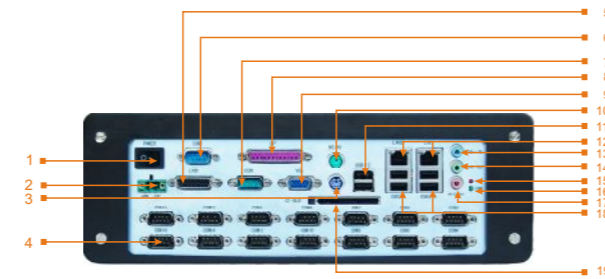
### Features:

- On-board Intel Atom N270 processor, with merely 2.5w power consumption
- 16 serial ports (COM 3-16 with optical coupler)
- On-board memory, up to 1GB
- Highly-reliable all-in-one design, with fully-closed dust-proof chassis
- Long-term continuous running and wide operating temperature range

### Front panel of AFC-6572



### Back panel of AFC-6572



- |                    |                         |                |
|--------------------|-------------------------|----------------|
| 1. Power button    | 8. LPT                  | 15. HDD Led    |
| 2. Power connector | 9. VGA                  | 16. Power Led  |
| 3. PS/2 Keyboard   | 10. PS/2 Mouse          | 17. MIC-IN     |
| 4. COM3~16         | 11. 2x USB2.0           | 18. 4x USB 2.0 |
| 5. LVDS            | 12. 2x Gigabit Ethernet | 19. CF slot    |
| 6. COM 2           | 13. Line-IN             |                |
| 7. COM 1           | 14. Line-OUT            |                |

### Specifications:

Model	AFC-6572
CPU	On-board Intel Atom N270 at 1.6 GHz
BIOS	32M-bit SPI Flash BIOS
RAM	Onboard, up to 1GB
Display	VGA/LVDS
I/O	1x DB25 parallel port, 16x DB9 serial ports, 6x USB 2.0 ports
Audio	ALC888, supporting MIC-IN, Speaker-OUT and Line-OUT
Ethernet	1x 1000Mbps RJ45 Ethernet
Storage	2.5" HDD bay and CF card slot
Power supply	DC +12V@5A
Operating Temp.	0°C ~ 60°C
Relative Humidity	0% ~ 90% non-condensing
Dimensions	229mmx194mmx110mm(WxDxH)

## BIS-6592GM Fanless embedded PC based on Intel GM45 platform

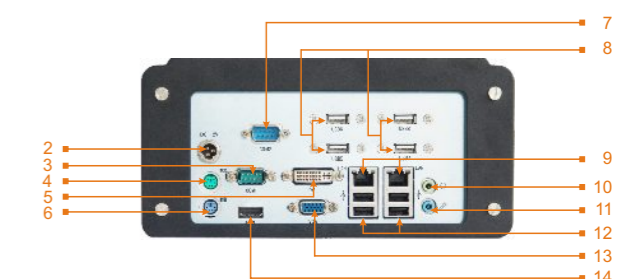
### Features:

- Intel GM45 + ICH9EM mobile chipset
- Triple display support (DVI/VGA/HDMI), hardware HD decoder
- 2 x COM, 8 x USB 2.0, Audio IN/OUT
- 2 x Gigabit Ethernet
- Intel AMT 4.0 support
- DC 12V power supply

### Front Pane of BIS-6592GM



### Back panel of BIS-6592GM



- |                    |                        |
|--------------------|------------------------|
| 1. Power button    | 8. 4x USB2.0           |
| 2. Power connector | 9. 2x Gigabit Ethernet |
| 3. COM 1           | 10. LINE-OUT           |
| 4. PS/2 Mouse      | 11. LINE-IN            |
| 5. DVI             | 12. 4x USB2.0          |
| 6. PS/2 Keyboard   | 13. VGA                |
| 7. COM 2           | 14. HDMI               |

### Specifications:

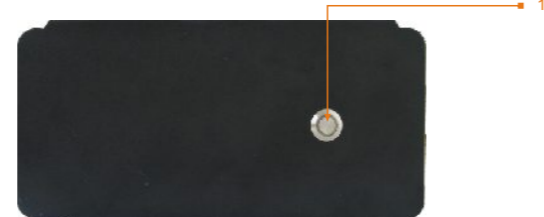
Model	BIS-6592GM
CPU	Intel Penryn/Core 2 Duo/Celeron processors
BIOS	8M bit Flash BIOS
Chipset	Intel GM45+ICH9EM
RAM	2x 204-pin SODIMM, up to 8GB DDR III 800/1066MHz RAM
Display	VGA/DVI(optional)/LVDS/HDMI/TV-OUT
I/O	2x Serial ports(1x RS-232, 1x RS-232/422/485), 8x USB2.0 ports
Audio	HDA Codec ALC888, MIC-IN and 2-way Speaker-OUT
Ethernet	Intel 82567LM/82574L GbE, 2x RJ-45, Mini-PCIE WiFi adapter (optional)
Storage	2x SATAII, 1x CF, 1x Mini-PCIE
Power supply	DC +12V@5A
Operating Temp.	0°C ~ 60°C
Relative Humidity	0% ~ 90% non-condensing
Dimensions	229mmx194mmx110mm(WxDxH)

## BIS-6591 Fanless embedded PC based on Intel Atom processor

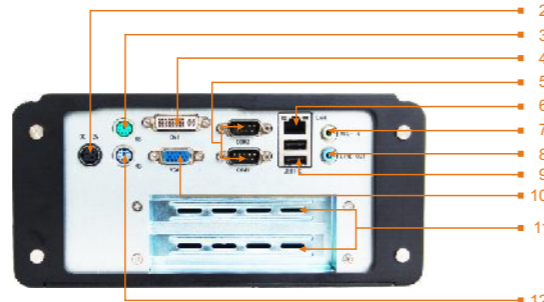
### Features:

- On-board Intel Atom N270 processor, with Intel 945GSE + ICH7M chipset
- 1x SO-DIMM slot, supporting up to 2GB DDR-II memory
- 2x COM, 2x USB 2.0, 2x SATA II, and 1x CF slot
- Wall-mount support

### Front panel of BIS-6591



### Back panel of BIS-6591



- |                        |                   |
|------------------------|-------------------|
| 1. Power button        | 7. MIC-IN         |
| 2. Power connector     | 8. Line-OUT       |
| 3. PS/2 Mouse          | 9. 2x USB 2.0     |
| 4. DVI                 | 10. VGA           |
| 5. 2x COM              | 11. PCI           |
| 6. 1x Gigabit Ethernet | 12. PS/2 Keyboard |

### Specifications:

Model	BIS-6591
CPU	On-board Intel Atom N270
BIOS	8M-bit Flash BIOS
RAM	1x 200-pin SODIMM, up to 2GB DDR-II 400/533MHz RAM
Display	VGA/DVI/LVDS
I/O	2x DB9 serial ports(Max. 4), 2x USB 2.0 ports, 1x Keyboard, 1x Mouse
Audio	ALC888, 7.1 channels, MIC-IN and Line-OUT
Ethernet	1x 1000Mbps RJ45 Ethernet
Storage	2.5" HDD bay, CF card slot (Type II CompactFlash)
Power supply	DC +12V@5A
Operating Temp.	0°C ~ 60°C
Relative Humidity	0% ~ 90% non-condensing
Dimensions	229mmx194mmx110mm(WxDxH)

## BIS-6592DV Fanless embedded PC with multiple Ethernet ports and DVD drive

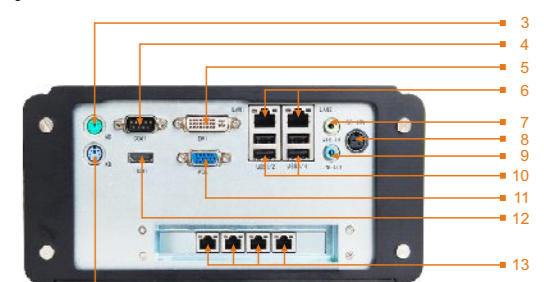
### Features:

- Intel GM45 + ICH9EM mobile chipset
- Triple display support (DVI/VGA/HDMI), hardware HD decoder
- 2 x COM, 8 x USB 2.0, Audio IN/OUT
- 2 x Gigabit Ethernet
- Intel AMT 4.0 support
- DC 12V power supply

### Front panel of BIS-6592DV



### Back panel of BIS-6592DV



- |                        |                         |
|------------------------|-------------------------|
| 1. Power button        | 8. DC 12V in            |
| 2. Mini-DVD-ROM        | 9. Line-OUT             |
| 3. PS/2 Mouse          | 10. 4x USB 2.0          |
| 4. 1x COM              | 11. VGA                 |
| 5. DVI                 | 12. HDMI                |
| 6. 2x Gigabit Ethernet | 13. 4x Gigabit Ethernet |
| 7. MIC-IN              | 14. PS/2 Keyboard       |

### Specifications:

Model	BIS-6592DV
CPU	Intel Penryn/Core 2 Duo/Celeron processors
BIOS	8M-bit Flash BIOS
Chipset	Intel GM45+ICH9EM
RAM	2x 204-pin SODIMM, up to 8GB DDR-III 800/1066MHz RAM
Display	VGA/DVI(optional)/LVDS/HDMI/TV-OUT
I/O	1x RS-232, 4x USB 2.0 ports, 1x Keyboard, 1x Mouse
Audio	HDA Codec ALC888, MIC-IN and 2-way Speaker-OUT
Ethernet	Intel 82567LM/82574L GbE, 6x RJ-45, Mini-PCIE WiFi adapter (optional)
Storage	1x 2.5" HDD bay, 1x CF card slot (Type II), 1x Mini-PCIE, 1x Mini-DVD-ROM
Power supply	DC +12V@5A
Operating Temp.	0°C ~ 60°C
Relative Humidity	0% ~ 90% non-condensing
Dimensions	229mmx194mmx110mm(WxDxH)