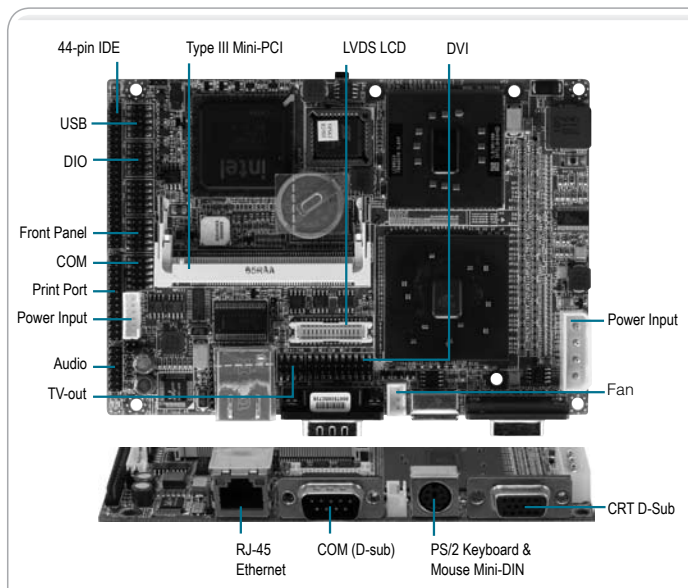


## ■ 3.5" SubCompact Board With Intel® ULV Celeron® M Processors



## Specifications

System	
Form Factor	3.5"
Processor	Onboard Intel® Celeron® M Processor 1.5 GHz/1.3 GHz or Intel® Celeron® M Processors at 600 MHz 512 Cache & 1 GHz 0 Cache
System Memory	200 pin DDR SODIMM x 1, Max. 1 GB (DDR266)
Chipset	Intel® 852GM + ICH4
I/O Chipset	ITE IT8712
Ethernet	Intel® 82562, 10/100Base-TX, RJ-45 x 1
BIOS	Award 512 KB FLASH ROM
Wake On LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	Mini-PCI x 1
Battery	Lithium battery
Power Requirement	+5V/ AT/ ATX
Power Consumption (Typical)	Celeron® M 1.5 GHz, DDR333 1 GB +5V@3.89A
Board Size	5.75"(L) x 4"(W) (146mm x 101.6mm)
Gross Weight	0.88 lb (0.4 kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	70,000
Display	
	Supports CRT/ LCD, CRT/ TV, CRT/ DVI, LCD/ DVI and LCD/ TV Simultaneous/dual view displays
Chipset	Intel® 852GM + Chromtel 7009
Memory	Shared system memory up to 64 MB/ DVMT
Resolutions	Up to 1600 x 1200 for CRT Up to 1280 x 1024 for LCD
LCD Interface	Up to 24-bit dual-channel LVDS (Emulated 24-bit Dual-channel)
TV-out	Supports NTSC and PAL standard, S-Terminal and Composite Video
DVI	DVI-D x 1
I/O	
Storage	EIDE x 1 (UDMA 33 for two devices), Type II CompactFlash™ x 1
Serial Port	RS-232 x 1, RS-232/422/485 (auto flow) x 1
Parallel Port	SPP/ EPP/ ECP mode
USB	USB2.0 x 4
PS/2 Port	Keyboard x 1, Mouse x 1
Digital I/O	Supports 8-bit (Programmable)
IrDA	One IrDA Tx/Rx header
Audio	Mic-in, Line-in, Line-out, CD-in

For Wide Temperature series of this model, please refer to Chapter 1 - Wide Temperature Boards, to get detailed specification of GENE-8310W1.

## Features

- Onboard Intel® ULV Celeron® M 1.5 GHz/ 1.3 GHz Or Intel® Celeron® M 600 MHz & 1 GHz Processors
- Intel® 852GM + ICH4
- SODIMM DDR266 Max. 1 GB
- 10/100Base-TX Ethernet x 1
- Up To 24-bit Dual-channel LVDS, CRT, TV-out, DVI
- AC97 Codec 2CH Audio
- EIDE x 1, Type II CompactFlash™ x 1
- COM x 2, USB2.0 x 4, Parallel x 1, 8-bit Digital I/O
- Mini-PCI x 1
- +5V Only Operation



## Packing List

- 1701440500 IDE Cable
- 1700060192 Keyboard/ Mouse Cable
- 1709100201 USB Cable
- 9657666600 Jumper Cap
- Heatsink or Cooler
- Quick Installation Guide
- Utility CD
- GENE-8310

## Ordering Information

- **TF-GENE-8310-A12 (Fanless)**  
3.5" Board, ULV Celeron® M 600 MHz, LCD-DVI-TV, DDR, LAN, 2 COM, USB2.0, CompactFlash™, Mini-PCI, AT/ATX, Rev. A1.2
- **TF-GENE-8310-A12-01 (With Fan)**  
3.5" Board, Celeron® M 1.3G, LCD-DVI-TV, DDR, LAN, 2 COM, USB2.0, CompactFlash™, Mini-PCI, AT/ATX, Rev. A1.2
- **TF-GENE-8310-A12-02 (Fanless)**  
3.5" Board, ULV Celeron® M 1.0 GHz, LCD-DVI-TV, DDR, LAN, 2 COM, USB2.0, CompactFlash™, Mini-PCI, AT/ATX, Rev. A1.2
- **TF-GENE-8310-A12-03 (With Fan)**  
3.5" Board, ULV Celeron® M 1.5G, LCD-DVI-TV, DDR, LAN, 2 COM, USB2.0, CompactFlash™, Mini-PCI, AT/ATX, Rev. A1.2

## Optional Accessories

- **TF-PER-C10L-A10**  
Mini-PCI 10/100Base-TX Ethernet Module with Realtek 8100C
- **TF-PER-C10L-A10-01**  
Mini-PCI 10/100/1000Base-TX Ethernet Module with Realtek 8110S
- **TF-PER-C10L-A10-02**  
Mini-PCI 10/100Base-TX Ethernet Module with Intel® 82551QM
- **TF-PER-C10L-A10-03**  
Mini-PCI 10/100/1000Base-TX Ethernet Module with Intel® 82541G1
- **TF-PER-C30F-A10**  
Mini-PCI 3-port IEEE 1394a Module
- **TF-PER-V30C-A11**  
Mini-PCI Single Channel Capture Module with Philips SAA7135
- **TF-PER-C40C-B10**  
Mini-PCI 2-port RS-232 Module Rev. B1.0
- **TF-PER-C40C-B10-01**  
Mini-PCI 4-port RS-232 Module Rev. B1.0
- **1702200205**  
Power Cable, 20P ATX(M), 4P 5.08mm Housing (F), 6P 2.0 Housing, 20cm
- **1709100208**  
USB Cable, Length 20cm
- **1701100206**  
COM Port Cable, 9P DB Male, Length 20cm
- **1701260200**  
LPT Cable, 25P D-SUB Female, Length 20cm
- **1709140181**  
Audio Cable, Audio Jack, Length 18cm
- **1700200200**  
DVI Cable, Length 20cm