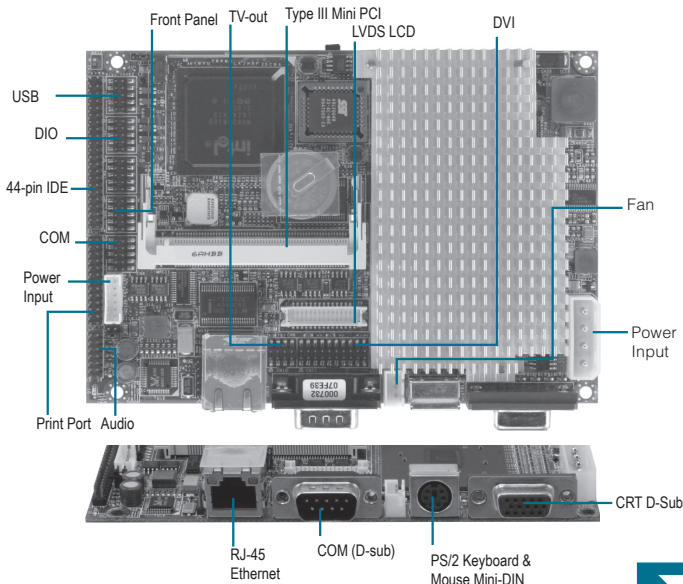


# GENE-8310

3.5" SubCompact Board with Onboard Intel® Celeron® M Processors 1.5GHz/1.3GHz or Intel® ULV Celeron® M Processors 1.0GHz 0K L2 cache/ 600MHz 512K L2 Cache

03

SubCompact Boards



## Specifications

| System                      |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Form Factor                 | 3.5"                                                                                                                   |
| Processor                   | Onboard Intel® Celeron® M Processor 1.5GHz/1.3GHz/ ULV Intel® Celeron® M Processors at 600MHz 512 Cache & 1GHz 0 Cache |
| System Memory               | 200-pin DDR SODIMM x 1, Max. 1GB (DDR266)                                                                              |
| Chipset                     | Intel® 852GM + ICH4                                                                                                    |
| I/O Chipset                 | ITE IT8712                                                                                                             |
| Ethernet                    | Intel® 82562, 10/100Base-TX, RJ-45 x 1                                                                                 |
| BIOS                        | Award 512KB 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 1.5GHz, DDR333 1GB<br>+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 64MB/ DVMT                                                                                  |
| Resolutions                 | Up to 1600x1200@32bpp colors for CRT<br>Up to 1280x1024@24bpp colors 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 x 1                                                                                         |
| Parallel Port               | SPP/ EPP/ ECP mode                                                                                                     |
| USB                         | USB2.0 x 4                                                                                                             |
| PS/2 Port                   | Keyboard + 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                                                                                       |

## Features

- Onboard Intel® Celeron® M 1.5GHz/ 1.3GHz/ ULV Intel® Celeron® M Processors at 600MHz & 1GHz
- Intel® 852GM + ICH4
- SODIMM DDR266 Max. 1GB
- 10/100Base-TX Ethernet x 1
- Up to 24-bit Dual-channel LVDS LCD, 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, LCD-DVI-TV, DDR, LAN, 2 COM, USB2.0, CompactFlash™, Mini-PCI, AT/ATX, Rev. A1.2
- TF-GENE-8310-A12-01**  
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 1.0G, LCD-DVI-TV, DDR, LAN, 2 COM, USB2.0, CompactFlash™, Mini-PCI, AT/ATX, Rev. A1.2
- TF-GENE-8310-A12-03**  
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® 82541GI
- 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-A10**  
Mini PCI 2-port RS-232 Module Rev. A1.0
- TF-PER-C40C-A10-01**  
Mini PCI 4-port RS-232 Module Rev. A1.0
- 1702200205**  
Power Cable, 20P ATX(M), 4P 5.08mm housing(F), 6P 2.0 Housing, 20cm
- 1709100201**  
USB Cable w/Bracket, Length 20cm
- 1701100206**  
COM Port Cable, 9P DB Male, Length 20cm
- 1701260201**  
LPT Cable, 25P D-SUB Female, Length 20cm
- 1700140510**  
Audio Cable, Audio Jack, Length 51cm