USER'S MANUAL

TF1260

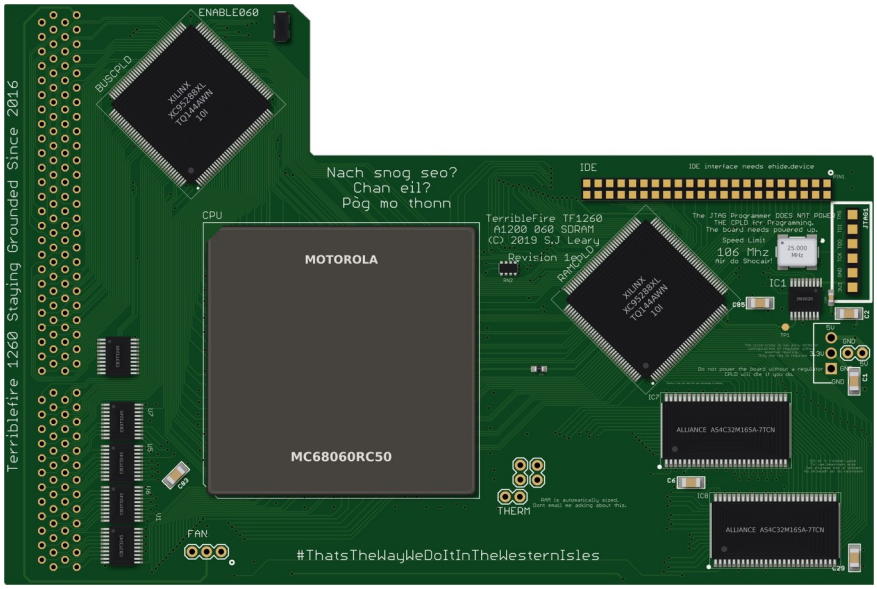
68060 CPU Accelerator for the Amiga 1200

The TF1260 plugs into the trapdoor expansion slot of the Amiga 1200(T). The 68060 is the fastest Motorola CPU for the Amiga and increases the performance of the computer considerably. The board also carries 128 MB of Fast RAM and a fast IDE interface.

1 FEATURES

* 68060 or 68LC060 CPU, clock speed set with the CPUSPEED tool
* 128 MB Fast RAM (SDRAM), added automatically
* IDE interface with the ehide.device driver
* Connectors for a fan and a temperature sensor

2 BOARD LAYOUT



TF1260

Part	Function
CPU	68060 or 68LC060 processor
BUSCPLD, RAMCPLD	Board logic
IDE	IDE connector for hard disks and Compact Flash adapters
FAN, THERM	Connector for a fan and a temperature sensor
ENABLE060	Jumper, fitted from the factory
JTAG1	For programming the logic only; the board must be powered while doing so

3 PREPARATION

Before installing the board, start the Amiga with its current configuration and install the 68060 libraries:

* **AmigaOS 3.1.4 or 3.2.x:** start the AmigaOS install disk and install «CPU Libraries».
* **Kickstart 3.0 or 3.1:** install the MMULib.lha package from aminet.net.

4 INSTALLATION

CAUTION: Electrostatic discharge can permanently damage the board and the Amiga. Grounding is required before touching the components, e.g. on a radiator or a grounded metal case.

1) Switch the Amiga off and remove the trapdoor cover on the bottom. Remove any memory or accelerator card already installed.
2) Slide the TF1260 into the slot. The newly produced connector is slightly larger than the old ones and needs a lot of force.
3) If the board is hard to insert: open the case, carefully place the keyboard backwards (the ribbon cable can stay connected) and slightly loosen the screw on the mainboard near the expansion slot. The board then slides in without force. Tighten the screw slightly again.
4) Reassemble the Amiga and switch it on. A rainbow pattern at startup is normal and shows that the TF1260 is ready.

5 SOFTWARE

The floppy disk supplied contains the IDE driver, LHA and the TF1260 tools:

Program	Function
CPUSPEED	Set the CPU clock
speedtest	Measure the speed
fancontrol	Control the fan
lightcontrol, lightsweep	Control the lighting

5.1 IDE Interface

To boot from the TF1260 IDE interface, ehide.device must be loaded at startup. LoadModule is available on Aminet; the command goes into S:Startup-Sequence, and the Amiga then reboots:

```
COPY DF0:EHIDE/ehide.device DEVS:
LoadModule DEVS:ehide.device
```

Alternatively, use a modified Kickstart 3.2 for the A1200 that already contains ehide.device. Compact Flash adapters on the IDE interface must be buffered. If ehide.device is already in the Kickstart ROM, the Amiga can also boot from the very fast IDE interface of the TF1260.

5.2 Note on the 68LC060

The 68LC060 has an MMU but no FPU. AmigaOS and most programs do not need an FPU. If an installer asks for the CPU, select the 68020/68030 variant; the program then runs without FPU, but at the full speed of the 68060.

6 TROUBLESHOOTING

Symptom	Remedy
Board is hard to insert	Loosen the mainboard screw near the slot (see «Installation»).
Amiga runs unstable	Select a lower or one of the stable clock speeds with CPUSPEED; check the cooling.
IDE drive is not detected	Load ehide.device. Use buffered Compact Flash adapters only.
Program requires an FPU (68LC060)	Select the 68020/68030 variant during installation.

7 CREDITS

Design and firmware: Stephen Leary (Terriblefire). ehide.device driver: Erik Hemming. More information: wordpress.hertell.nu/?page_id=1161 (John Hertell).