

# Igel M340C



My M340C came without a foot.

The M340C was part of Igel's [UD3](#) line of thin clients.

For some unknown reason finding the launch date took some doing. I eventually found a blogger's column (dated 15th February 2016) that mentioned the imminent launch of what I believe to be the

M340C. This ties in with a mention I found of the Igel Version of Windows 7 that was available on the M340C at launch. That software was released on 1st February 2016.

The UD3-LX 51 reached 'End-of Sales' in January 2021 and 'End of Maintenance' is due in January 2024.

# Models

Shortly after I added the M340C to the site I heard from Bob who drew my attention to the fact that there were M340Cs around that were fitted with the less powerful AMD GX-412. I (well, Google if I'm honest) couldn't find any datasheet that tied the M340C and the GX412 SOC together. Any M340C specific datasheet I found only mentioned the GX-424CC.

Switching to searching on UD3 improved matters. I found a UD3 datasheet that had been created in October 2016. The picture of the thin client matches my M340C, the CPU is given as *AMD Stepe Eagle GX-412HC 1,2 - 1,6 GHz (Quad-Core)*, but there is no mention of the hardware model number. By January 2019 the UD3 datasheet gives the CPU as *AMD GX-424CC 2.4 GHz (Quad-Core)*.

Further searching found me an 'Igel Roadmap' which mentions the switch to the AMD GX-424 with availability from the end of February 2018.

The pull-out tab on Bob's M340C and my M340C match in that in each case the model name is given as **IGEL-M340C**. From a photo that Bob sent me it looks the motherboard and internal layout are identical.

From this we can see that, at launch, the M340C was fitted with an AMD GX-412HC (1.2GHz-1.6GHz, with Radeon R3E graphics). In early 2018 Igel upgraded the SOC in the M340C to an AMD GX-424CC (2.4GHz, Radeon R5E graphics) without any change to the model name.

IGEL M340C label

How you determine exactly what you're getting I'm not too sure as there is just one obscure visual clue to help you. I found on close inspection of my M340C that it does have the words *GX-424CC-QC* on the reverse of the pull-out tab with the model number. (This is along with stuff like the serial number et al). Obviously a check of the information in the BIOS makes it clear but eBay vendors often provide few (or stock) photos and just cut-and-paste information they find on the Internet into their adverts. In fact, checking back, I see the M340C I bought was actually inaccurately advertised as having a *1.2GHz* CPU.

What follows below are the details of my later model M340C. As to the earlier model two obvious differences are:

- CPU/Graphics are AMD GX-412HC and Radeon R3E.

- BIOS is a more conventional InsydeH20.

# Specifications

The basic specs are:

<b>Processor</b>	
Type Speed	AMD GX-424CC (Quad-Core) 2.4GHz
<b>Chipset</b>	
Type	Built-in
<b>Memory</b>	
Flash RAM	2GB(LX) 32GB(W10) 4GB(LX) 4GB(W10) max. 1x 8GB
<b>Video</b>	
Chip Max resolution	Radeon R5E 1920 x 1200 (DVI), 3840 x 2160 (Display Port)
<b>Ports</b>	
Video Network USB  Serial Parallel PS/2	1 x DVI-I 1 x Display Port 1.2 10/100/1000 3 x USB2.0, 1 x USB 3.0 back 1 x USB 3.0 front none none Kybd
<b>Power</b>	
Supply Plug Off Running Idle	12V 3A (label) Coax 5.5mm/2.1mm 1W 10W 6W
<b>Dimensions</b>	
W x H x D	6.9cm x 21.0cm x 20.7cm

There is an optional replacement 'foot' that includes 2 x serial ports.

The M340C is available in various guises and could be running Linux or Windows 10.

# CPU

The GX-424CC is a quad core CPU clocked at 2.4GHz. For those to whom it matters here is some detail from Linux's /proc/cpuinfo

“ vendor_id	:	AuthenticAMD
cpu family	:	22
model	:	48
model name	:	AMD GX-424CC SOC with Radeon(TM) R5E Graphics
stepping	:	1
flags	:	fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb rdtscp lm constant_tsc rep_good acc_power nonstop_tsc cpuid extd_apicid aperfmperf pni pclmulqdq monitor ssse3 cx16 sse4_1 sse4_2 movbe popcnt aes xsave avx f16c lahf_lm cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch osvw ibs skinit wdt topoext perfctr_nb bpext ptsc perfctr_llc hw_pstate ssbd vmmcall bmi1 xsaveopt arat npt lbrv svm_lock nrip_save tsc_scale flushbyasid decodeassists pausefilter pfthreshold overflow_recov

# PCI

Click for the output from the linux **lspci** command:

# Power Supply

The IGEL M340C uses an external 12V supply with a conventional 5.5mm/2.1mm coaxial connector. The M340C data sheet gives it power consumption as 4.7W when idle and 0.42W in sleep mode.

# Expansion

There is not much space inside the M340C for adding extras, but both the Flash memory and the RAM are easily replaceable.

**Flash:** The flash memory is a Transcend 4GB SATA DOM plugged into a socket - top left in the photograph. When fitted the edge of it is in contact with a square rubber pillar which I assume is there to help keep it in place. The SSD measures 34mm from the edge of the socket it plugs into to its edge against the rubber pillar. You've got about another 12mm before whatever SSD you are wanting to use hits the mounting screw of the heatsink. Also, if you're fitting a longer replacement than the standard SSD, you'll need to slightly reduce the height of the rubber pillar.

The board is tracked for a mSATA socket below the SATA DOM. As usual it looks like the capacitors in the data lines are missing should you wish to try your soldering skills and put this into service.

In November 2021 I heard from Erik who had the earlier model of the M340C. His example had the mSATA socket fitted. I don't know if this is the case with all early models.

**RAM:** There is a single DDR3L SODIMM socket for the RAM. The 2GB Transcend SODIMM supplied with my unit is labelled: TS1T3DDR3L-02G. I successfully tried an 8GB part from Crucial: CT102464BF160B.C.16FER.

**Card Reader:** Erik's earlier model came fitted with a card reader. The card reader board connects to J6, a white 4-pin socket on the motherboard.

There is a JBAT1 jumper close to the backup battery for clearing the CMOS.

The short RED lead (bottom left in the board photo) is the connector to the front panel USB 3.0 socket. (Although it looks to be a SATA data lead it's just being used as a convenient board connector).

Also on the board there is an unpopulated 2 x 5 socket (J3) whose purposes are unknown (at least to me).

Configured Voltage: 1.5 V

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