[MAX78000 Product Page](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.maximintegrated.com%2Fen%2Fproducts%2Fmicrocontrollers%2FMAX78000.html&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567050504%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=iVL%2Bvwews5i096s7zGE9v6IvV4D6iQPHkhihNr%2BN2XA%3D&reserved=0" \o "Original URL: https://www.maximintegrated.com/en/products/microcontrollers/MAX78000.html. Click or tap if you trust this link." \t "_blank) – several links on this page to the IC datasheet, EVKit datasheets, ordering info, app notes and several videos.

[tinyML Talks Kristopher Ardis and Robert Muchsel: Cutting the AI Power Cord: Technology to Enable... - YouTube](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D7B19a1ua3qE&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567050504%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=CIk8tuFCpyroLWpSbXOW%2BtSXDd4YPh94hQLTycWyq6M%3D&reserved=0) – great overview of the MAX78000 architecture, features and development flow.  (Slides are attached.)

Elektor Magazine webinar ([https://youtu.be/cWq4kKQrY0o](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2FcWq4kKQrY0o&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567060497%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=VPoA0ZZ6oW5M%2FrA0mlVpzRAn50kRfjI7r4Ul63k84IE%3D&reserved=0) ) Introduces the MAX78000FTHR and discusses high level aspects of executing a project.  Good overview prior to starting a project. (Slides are attached.)

[Artificial Intelligence - YouTube](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fplaylist%3Flist%3DPLJo-JDlnT6xtJoCQZWxlZjRUy1hWCYSI5&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567060497%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=SREYCNk57SEgfvsMwo5iUbNjs2Ig3JwqxLyYIHgABIU%3D&reserved=0) - playlist for MAX78000

                “A Practical Introduction to the Toolchain and Demos for the MAX78000 AI Microcontroller - Part 1 and Part 2”.  These are each ~40 minutes and provide an in depth tutorial on the training, synthesis and embedded development tools

                Short videos showing our demos.  Will give you a sense of what the MAX78000 capability

GitHub project: [Maxim Integrated AI](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgithub.com%2FMaximIntegratedAI&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567070489%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=gy7VmaGu5T8mdvh3jBl9SlcdE3BYOZz9jAs5wZ5lnDg%3D&reserved=0)

                Start with the documentation repo.

[Getting Started with the MAX78000FTHR (github.com)](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgithub.com%2FMaximIntegratedAI%2FMaximAI_Documentation%2Fblob%2Fmaster%2FMAX78000_Feather%2FREADME.md&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567070489%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=AXDAjKq%2BzgMhvlQS%2FgFTTRZA5XEhZUQOmCyY0xtGYsY%3D&reserved=0)

Details of the MAX78000 CNN and other hardware peripheral are in the [MAX78000 User Guide.](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgithub.com%2FMaximIntegratedAI%2FMaximAI_Documentation%2Fblob%2Fmaster%2FMAX78000%2FMAX78000%2520User%2520Guide.pdf&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567080485%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=o32culVB6wVTkoTXMV6ueA5cNE037PK8QuV%2Bf%2FbILMw%3D&reserved=0)  Provides functional details not included in the MAX78000 datasheet.

                ai8x-training and ai8x-synthesis repos - the README.MD (or .PDF) in both are identical and provide in depth information on using the tools and the accelerator block functionality.

[MAX78000\_SDK](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgithub.com%2FMaximIntegratedAI%2FMAX78000_SDK&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567080485%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=9oifWULq4EVQ4yJW0ro9uuz%2F3Zh1TRkOAKg5CQ2phuw%3D&reserved=0) repo – Libraries, tools and [example code for CNN demos and hardware peripherals](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgithub.com%2FMaximIntegratedAI%2FMAX78000_SDK%2Ftree%2Fmaster%2FExamples%2FMAX78000&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567090486%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=WY0ZkQvnWSEmvBc0M38voya22Nnfq%2Fe5V3BS5AZbO7E%3D&reserved=0).  (Download the SDK installer `MaximMicrosSDK.exe’ from [MaximIntegrated.com](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.maximintegrated.com%2Fen%2Fdesign%2Fsoftware-description.html%2Fswpart%3DSFW0010820A&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567090486%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=GvtcTgB3pFhxIC2He4WZD9Fv%2BS3cj8EdCAgVpVqh%2BhM%3D&reserved=0))

Elektor Magazine articles (3rd party articles on the using the MAX78000FTHR in a project).

                Elektor Article: C. Valens, "[AI at the Edge: Getting Started with the MAX78000FTHR](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.elektormagazine.com%2Farticles%2Fai-edge-get-started-maxim-max78000fthr&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567100476%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=7vHrjDxkWXGwQbgNA5hNFw5qYgEB0AXNE5te59V6YXA%3D&reserved=0)", ElektorMagazine.com, 2021.

Elektor Article: L. Lemmens, "[AI with the MAX78000: Hardware Essentials](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.elektormagazine.com%2Farticles%2Fai-max78000-feather-board&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567110470%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=sjt%2FDavQcyXjY6LzuUzHvmA5AlDok4XiYuGzxGgTCiM%3D&reserved=0)," ElektorMagazine.com, 2021.

Elektor Article: M. Claussen, "[Making Coffee with the MAX78000 and Some AI](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.elektormagazine.com%2Farticles%2Fmaking-coffee-max78000-ai&data=04%7C01%7CKarthik.Gopan%40utdallas.edu%7Cf7145e95e7ba41a201bd08d930f8f99b%7C8d281d1d9c4d4bf7b16e032d15de9f6c%7C0%7C1%7C637594668567110470%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000&sdata=pGtZ9my%2BOmoqeFR3trBjaCreVPlUoWlRtYvDLVL4LEY%3D&reserved=0)", ElektorMagazine.com, 2021.