



**** FOR IMMEDIATE RELEASE ****

New Products

High-Speed Ethernet Multifunction Analog I/O Module with Advanced Features

New eNET-AIO16-16F offers high-precision data acquisition over TCP/IP networks

SAN DIEGO, CA — August 19, 2025 — ACCES I/O Products proudly announces the release of its newest Ethernet-based data acquisition computer solution—the eNET-AIO16-16F. This standalone, high-speed analog input/output module delivers reliable, flexible, and high-performance DAQ capability over any TCP/IP network. Designed for demanding real-world applications, the eNET-AIO16-16F supports up to 1 million samples per second and includes both analog and digital I/O, all within a rugged, compact enclosure ready for harsh environments.

Ideal for remote monitoring, process control, and test systems, this flexible module communicates over standard 10/100/1000 Base-T Ethernet, supporting multiple simultaneous connections. Analog inputs can be sampled as either single-ended or differential, with per-channel programmable gain ranges, making it easy to capture diverse signal types without additional front-end circuitry.

With its on-board ARM processors, Linux, and intelligent firmware, the eNET-AIO16-16F can be used as a smart DAQ node on a network, or in direct-to-PC applications using ACCES's easy-to-use API and drivers.

Factory options include extended temperature of -40°C to +85°C, current inputs (4-20mA, 10-50mA), signal conditioning for higher voltage inputs and PoE (Power Over Ethernet) for ultimate convenience. Additional customization options include conformal coating, custom software, OEM product labeling, and more — even entirely new features, enabled by our advanced embedded TI Sitara AM6422-based design, which directly supports IIoT protocols including EtherNet/IP, PROFINET RT & IRT, and more!

Key features of the eNET-AIO16-16F Family include:

- 16 analog inputs, software selectable as single-ended or 8 differential
- 16-bit A/D converter with sustained sampling at up to 1MHz
- 8 software programmable per channel input ranges
- Autocalibration and filtering onboard for accurate data
- 4 analog outputs (DACs) with 16-bit resolution and 4 factory ranges
- 16 flexible digital I/O lines; can be used for triggering, status, or control
- 10/100/1000 Base-T Ethernet with support for multiple simultaneous connections
- On Board Intelligence: Built on IEC 61508-certified TI Sitara AM6422 SoC
- Custom Code Ready: Run your own Linux apps with full access to all DAQ and processor resources
- Compact, rugged enclosure with various mounting options for easy integration

Custom Software and OS Support:

Because of Ethernet's ubiquitous nature these boards are supported for use in all operating systems — including Windows, Linux, Unix, iOS, Android — even Raspberry PI, etc. The software package includes free Linux and Windows software with sample programs and source code in C# and Delphi for Windows. Also provided is a graphical setup program in Windows and extensive Ethernet-packet level API documentation. Third party application support includes a Windows standard DLL API usable from most popular application programs. Embedded OS support includes Windows Embedded Standard, Windows IoT, and all applications, operating systems, PLCs, and other devices capable of TCP/IP communication.

For detailed technical specifications, a datasheet, and user manual, please visit the product webpage at:

<https://acesio.com/product/enet-aio16-16f/>

About ACCES I/O Products, Inc.

For over 35 years, ACCES I/O Products, Inc. has supplied an extensive range of analog, digital, serial communication, and isolated I/O boards and solutions, including a line of popular rugged USB hubs. ACCES also offers complete systems, integration services and enclosures with a quick turn-around on custom projects including software. ACCES products are designed for use with mPCIe (PCI Express Mini Card), M.2, PCI Express, PCIe/104, Ethernet, USB, PCI, PC/104, and ISA, as well as distributed, wireless I/O, and computer-on-module (COM) form factors. All hardware comes with a 30-day, no-risk return policy and a three-year warranty. For further information, visit the company's web site at www.acesio.com.

Price: Prices start at \$1169, Please inquire for OEM and volume pricing

Availability: Now

Delivery: Stock to two weeks ARO

Card Images: [300 dpi JPG](#) | [300 dpi PNG](#)

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The diagram shows the pinout for the eNET-AIO16-16F-10B module. It includes a header with the ACCESS I/O PRODUCTS, INC. logo and a power symbol. Below the header, the model number and a brief description are provided. The pinout is listed in two columns, with each pin number and its function. A note at the bottom specifies that pins 18, 20, 21, 32, 33, 34, and 51-55 are for factory use only, and that pins 14, 16, 17, and 19 are DACs 0-3. The website www.accessio.com and 'Made in the U.S.A.' are also mentioned.

ACCESS
I/O PRODUCTS, INC.

eNET-AIO16-16F-10B
16 A/D Channels at up to 1MHz, with Four 16-bit DACs

AD0/0+	Pin 1	DI00	Pin 30
AD1/1+	Pin 3	DI01	Pin 64
AD2/2+	Pin 5	DI02	Pin 29
AD3/3+	Pin 7	DI03	Pin 63
AD4/4+	Pin 9	DI04	Pin 28
AD5/5+	Pin 11	DI05	Pin 62
AD6/6+	Pin 13	DI06	Pin 27
AD7/7+	Pin 15	DI07	Pin 61
AD8/0-	Pin 35	DI08	Pin 26
AD9/1-	Pin 37	DI09	Pin 60
AD10/2-	Pin 39	DI010	Pin 25
AD11/3-	Pin 41	DI011	Pin 59
AD12/4-	Pin 43	DI012	Pin 24
AD13/5-	Pin 45	DI013	Pin 58
AD14/6-	Pin 47	DI014	Pin 23
AD15/7-	Pin 49	DI015	Pin 57
AD-GATE	Pin 67		
AD-TRIG	Pin 68		

PINS 18, 20, 21, 32, 33, 34, and 51-55 are FACTORY USE ONLY
PINS 14, 16, 17, and 19 are DACs 0-3
PINS 22, 31, 56, 65, and 66 are Digital Ground
All other pins are Analog Ground
www.accessio.com Made in the U.S.A.

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