MIC Advanced Flex I/O Series

I/O Expansion Kit for MIC-7 Series

Features

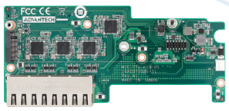
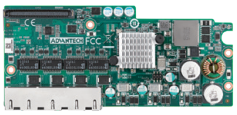
- Flexible expansion for additional I/O and functions in MIC-7 systems
- Expansion on the front for same-side cabling for easy maintenance
- Keeps compact size, fanless design, and wide operating temperate advantages of MIC-7 series
- Supports NVMe M.2 SSD via PCIe x4, faster read/write speed than SATA
- Special design NVMe heatsink with thermal pad, compatible with different NVMe for heat dissipation
- Supports four GbE LAN, each with dedicated PCIe lane
- Supports Intel® i350 PoE capability with programmable power on/off control
- Compatible with MIC Regular FIO, i-Module, and Advantech iDoor

Introduction

The new Advanced Flex I/O Series is designed to support more I/O and superior functionality while keeping the advantages of the MIC-7 series: compact, fanless design, and a wide-operating temperature range.

MIC Flex I/O, such as the HDMI/DVI kit, MIC i-Module to add the PCIe/PCI card, and Advantech iDoor can still be supported by the MIC-7 series when Advanced Flex I/O is added. Additional modular expansion options satisfy an array of requirements. The series is suitable for machine vision, factory automation, and IEM deployment.

Specifications

Part Number	98910770301	98910770401	98910770501
Picture			
Support Model	MIC-770*	MIC-770*	MIC-770*
Function	NVMe M.2 + 4x GbE LAN	NVMe M.2	4x GbE PoE
Interface	B/B Connector	B/B Connector	B/B Connector
Signal	1 x PCIe x4 for NVME 4 x PCIe x1 for 4 x LAN LPC for TPM2.0 module	1 x PCIe x4 for NVME LPC for TPM2.0 module	1 x PCIe x4 for Intel® i350
NVMe Spec.	M.2 2280, M-Key	M.2 2280, M-Key	-
Ethernet Controller	4 x Intel® i210	-	1 x Intel® i350
LAN Speed	10/100/1000 Mbps	-	10/100/1000 Mbps
Operating Tempeature	-10 ~ 50 °C**	-10 ~ 50 °C**	-10 ~ 40 °C**
PoE Output Power	-	-	Total 40W 802.3.af PoE Compliant
PoE On/Off Control	-	-	✓
Heatsink	NVMe M.2	NVMe M.2	Intel® i350
Regular MIC FIO Support	Compatible***	Compatible***	-

* Only support by MIC-770 V1 Q SKU and MIC-770 V2 W SKU
** Test with 35W TDP CPU (with 0.7m/sec air flow)
*** AIIS-DIO32-00A1E and 9891790040E cannot be supported.

Ordering Information

Part Number	Description
98910770301	96910770301 MIC NVMe + 4 LAN FIO
98910770401	96910770401 MIC NVMe FIO
98910770501	96910770501 MIC 4 PoE FIO

Flex I/O Introduction

Example: MIC-770 (default)

Small FIO Regular FIO

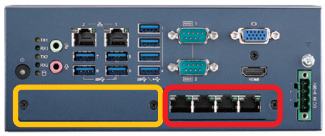
Example: MIC-770 + 98910770501

Advanced Flex I/O

Flex I/O Assembly Example

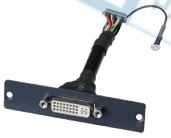
Default MIC-770

Advanced Flex I/O
NVME + 4x LAN



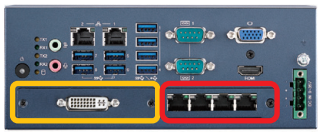
After Assembly

Default MIC-770



Regular Flex I/O
DVI

Advanced Flex I/O
NVME + 4x LAN



After Assembly

Note 1: Please visit Flex I/O product page for more information of Regular Flex I/O
Note 2: Regular Flex I/O will move to the left once Advanced Flex I/O is assembled

Default MIC-770

Advanced Flex I/O
4x PoE

After Assembly

Note: Regular Flex I/O cannot be added together with PoE Flex I/O

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