

# 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 temperature 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	98910770300	98910770400	98910770500
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	1 x PCIe x4 for NVMe	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 Temperature	-10 ~ 50 °C**	-10 ~ 50 °C**	-10 ~ 50 °C**
PoE Output Power	-	-	Max. 10W per port (Total Max. 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 Q SKU supported

\*\* Test with 35W TDP CPU

\*\*\* AIS-DIO32-00A1E and 9891790040E cannot be supported.

### Ordering Information

Part Number	Description
98910770300	96910770300 MIC NVMe + 4 LAN FIO
98910770400	96910770400 MIC NVMe FIO
98910770500	96910770500 MIC 4 PoE FIO

## Flex I/O Introduction

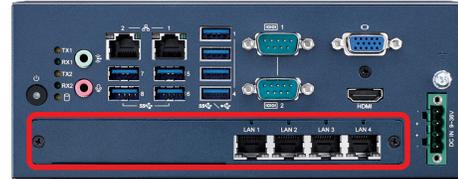
Example: MIC-770 (default)



Small FIO

Regular FIO

Example: MIC-770 + 98910770500



Advanced Flex I/O

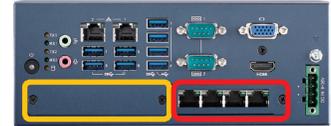
## Flex I/O Assembly Example



Default MIC-770



Advanced Flex I/O  
NVME + 4x LAN



After Assembly



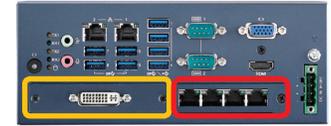
Default MIC-770



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