# 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 PCle 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 PCle/PCl 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	AAAAAAAA	Page and a second	
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 PCle x4 for NVME 4 x PCle x1 for 4 x LAN LPC for TPM2.0 module	1 x PCIe x4 for NVME LPC for TPM2.0 module	1 x PCle x4 for Intel® i350
NVMe Spec.	M.2 2280, M-Key	M.2 2280, M-Key	<del>-</del>
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***	-

<sup>\*</sup> Only support by MIC-770 V1 Q SKU and MIC-770 V2 W SKU

### **Ordering Information**

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

<sup>\*\*</sup> Test with 35W TDP CPU (with 0.7m/sec air flow)

<sup>\*\*\*</sup> AIIS-DI032-00A1E and 9891790040E cannot be supported.

## Flex I/O Introduction

Small FIO

Default MIC-770

**Example: MIC-770 (default)** 



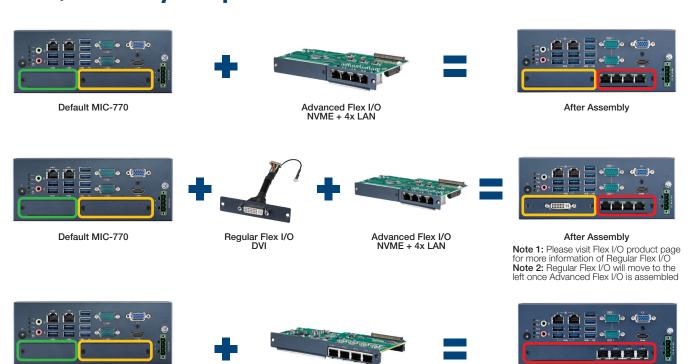
Regular FIO



Example: MIC-770 + 98910770501

Advanced Flex I/O

# Flex I/O Assembly Example



Advanced Flex I/O 4x PoE

After Assembly

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