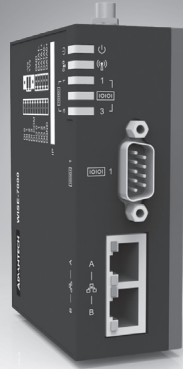


# WISE-710

## FreeScale i.MX 6 DualLite Industrial Protocol Gateway with 2GbE, 3 x COM, 4DI/4DO, 1 x Micro USB, 1 x Micro SD Slot

**NEW**



### Features

- Freescale i.MX 6 Dual Lite A9 1GHz
- Expansion slot: 1x Full size mPCIe with USB signal
- Support CANBus 20~1000K
- Embedded with security chip for data security
- Support DIO wet contact & dry contact by switch
- Isolated protection of digital input/output
- Operation System: Ubuntu 16.04 (Default)/ Yocto 2.1 (Optional)
- Operation Temperature: -20~55°C
- Advantech WISE-PaaS/Edgelink support
- Edgelink support MQTT, LWM2M client for cloud communication
- EdgeLink supports more than 200 I/O Drivers
- EdgeLink supports user-defined acquisition period

### Introduction

The WISE-710 industrial IoT gateway was an open platform with Cortex A9 processor, equipped with 3 x serial ports, 2 x 10/100/1000 Ethernet ports, and 4 x DI/DO which is great solution to connect your legacy equipments to the new mesh networks. All collected data to the cloud could be secured by key encryption technology from embedded security chip. With its rich I/O, and wide operating temperature design, the gateway plays a role as PLC-side protocol converter, and also data logger for multiple industrial applications.

### Specifications

#### General

- **Certification** CE, FCC
- **Mounting** Wall-Mount/ DIN-Rail/ Pole-Mount (Optional)
- **Power Consumption** 5W @ 24V<sub>DC</sub>
- **Power Requirements** 24 V<sub>DC</sub>

#### System

- **CPU** i.MX 6 ARM Cortex-A9 (Up to 1GHz)
- **Indicators** LEDs for Power, Wireless, LAN, Serial
- **Storage** 8GB eMMC
- **Working Memory** 1GB DDR3 RAM
- **SD Slot** 1 x Micro-SD slot
- **Real-time Clock** Yes

#### Communication

- **Serial Port** COM1 1x RS232/485, DB9, 0.15~115.2kbps  
COM2 1x RS485/CANBus (by switch), 5pin, 50~921.6kbps; CANBus, 20~1000k  
COM3 1x RS485, 2pin, 0.15~115.2kbps
- **Ethernet Port** 2 x 10/100/1000 Base-T RJ-45 ports
- **USB Port** 1 x Micro USB Host (Support flash storage)
- **Isolated DI/DO** 4-ch digital input, 4-ch digital output (2000 V<sub>DC</sub>)
- **Expansion slot** 1x Full size mPCIe with USB signal

#### Software

- **OS Support** Ubuntu 16.04 (Default)/ Yocto 2.1 (Optional)
- **Application Software** WISE-PaaS/Edgelink  
Max Connection: 4 for uplink protocols (MQTT x 4, Modbus x 4...etc.)  
Max Tag: Default 3000 Tags  
(W/O upgrade option)

#### Environment

- **Operating Temperature** -20 ~ 55 °C (-4 ~ 131 °F) with 0.7 m/s air flow
- **Storage Temperature** -30 ~ 75 °C (-22 ~ 167 °F)
- **Humidity** 10 ~ 95% RH @ 40 °C, non-condensing
- **Vibration During Operation** 2 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.
- **Shock During Operation** 10G, IEC 60068-2-27, half sine, 11 ms duration

### Ordering Information

Part No.	CPU	RAM	Storage	GbE	RS-232/485	RS-485/CAN	RS-485	Micro USB	Micro SD Slot	4DI/4DO	8AI/4DI	4RTD/4TC	OS	Application SW
WISE-710-N600A	i.MX 6 ARM Cortex-A9	1GB	8GB eMMC	2	1	1	1	1	1	1	N/A	N/A	Ubuntu 16.04	N/A
WISE-710-N6MCA	i.MX 6 ARM Cortex-A9	1GB	8GB eMMC	2	1	1	1	1	1	1	1	N/A	Ubuntu 16.04	N/A
ESRP-PCS-WISE710	i.MX 6 ARM Cortex-A9	1GB	8GB eMMC	2	1	1	1	1	1	1	N/A	N/A	Yocto 2.1	WISE-PaaS/Edgelink

