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



Features

- Freescale i.MX 6 Dual Lite A9 1GHz
- Expansion slot: 1x Full size mPICe 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

Mounting

Power Consumption

Power Requirements

System

- CPU

Indicators

Storage

SD Slot Real-time Clock

Working Memory

i.MX 6 ARM Cortex-A9 (Up to 1GHz) LEDs for Power, Wireless, LAN, Serial 8GB eMMC

Wall-Mount/ DIN-Rail/ Pole-Mount (Optional)

CE. FCC

 $24\;V_{\text{DC}}$

5W @ 24V_{DC}

1GB DDR3 RAM 1 x Micro-SD slot

Yes

Communication

Serial Port

COM2 1x RS485/CANBus (by switch), 5pin, 50~921.6kbps; CANBus, 20~1000k COM3 1x RS485, 2pin, 0.15~115,2kbps 2 x 10/100/1000 Base-T RJ-45 ports

1 x Micro USB Host (Support flash storage)

4-ch digital input, 4-ch digital output (2000 V_{DC})

COM1 1x RS232/485, DB9, 0.15~115.2kbps

USB Port Isolated DI/DO

Expansion slot

Ethernet Port

1x Full size mPICe with USB signal

Software

OS Support

Application Software

Ubuntu 16.04 (Default)/ Yocto 2.1 (Optional)

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

Storage Temperature

Humidity

Vibration During Operation Shock During Operation

-20 ~ 55 °C (-4 ~ 131 °F) with 0.7 m/s air flow

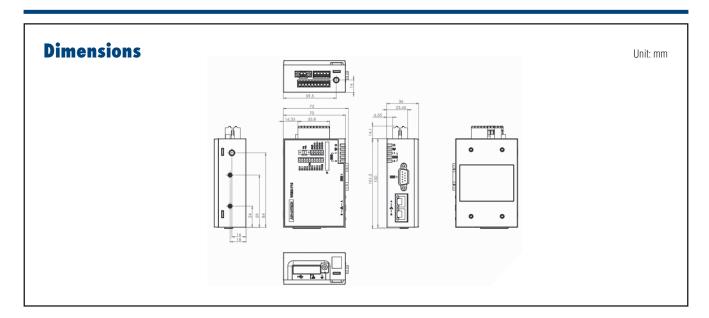
-30 ~ 75 °C (-22 ~ 167 °F) 10 ~ 95% RH @ 40 °C, non-condensing

2 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz,

10G. IEC 60068-2-27, half sine, 11 ms duration

Ordering Information

Part No.	СРИ	RAM	Storage	GbE	RS- 232/485	RS-485/ CAN	RS-485	Micro USB	Micro SD Slot	4DI/ 4D0	8AI/ 4DI	4RTD/ 4TC	08	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



Wi-Fi Solution

 968AD00259 Half-size Mini PCle, 802.11 ac/a/b/g/n (2.4GHz 5GHz), USB 2.0 signal

9656EWMG00E
1750009066-01
1750009035-01
Half-size to Full-size Mini PCle Bracket Pack
Dipole Ant. 2.4G WIFI 2.05dBi SMA/M-R RG178 BLK
Cable Ant. SMA/F-BH MHF1/113 BLK L100mm

3G/LTE Solution

■ EWM-C117FL03E LTE/HSPA+/GPRS module, w/ SIM Slot,TOBY-L200,

for USA AT&T, T-Mobile,w/o voice function

• EWM-C117FL04E LTE/HSPA+/GPRS module, w/ SIM Slot,T0BY-L210, for Europe, APAC,w/o voice function

• EWM-C117FL05E LTE/HSPA+/GPRS module, w/ SIM Slot,T0BY-L210H-60S, for Japan Softbankw/o voice function

■ EWM-C117FL06E LTE/HSPA+/GPRS module, w/ SIM Slot,TOBY-L280H,

for Taiwan. w/o voice function

EWM-C145FL01E
LTE/HSPA+/GPRS (WCDMA and CDMA) for China
ITE: 1750009067-01
3G:1750005865
1750009036-01
Cable Ant. SMA/F-R-BH MHF1/113 BLK L100mm

Storage Solution

• 96FMMSDI-4G-ET-AT1 ATP 4G MICRO SD CARD I-GRD SLC(G)

96FMMSDI-8G-ET-AT1 ATP 8G MICRO SD CARD I-GRD SLC(G)

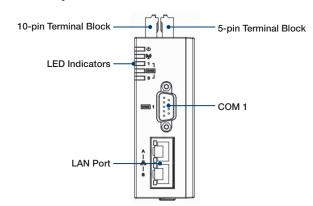
Optional Accessories

DIN-Rail Powre Supply

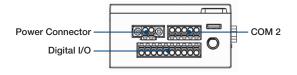
96PSD-A20W24-MM1700029720-01

A/D 100-240V 20W 24V MDR DIN RAIL M cable AC CONN 3P 183cm

Front I/O View



Top I/O View



Underside I/O View

