

EAC Mini EACFA20 – ARM-Based IoT Gateway

Connect Everything, Control Everywhere

EAC Mini EACFA20 is an ARM-based industrial IoT gateway with low power consuming NXP A9 i.MX6 processing and excellent expansion possibilities. Expansion modules offers rich options for additional serial interfaces such as CANBus, DIDO, Wi-Fi and 4G LTE. Wireless connectivity and all necessary connectors allow the EAC mini (EACFA20) to send data from manufacturing facilities directly to cloud servers. This ARM-based IoT gateway features Android, Linux, and Ubuntu operating system choices. Compact size and rich expansion options makes the EACFA20 suitable for IoT, smart factory and machine automation applications. The EACFA20 is Microsoft Azure Certified for IoT.



Highlights

- NXP A9 i.MX 6 Dual Core 1GHz
- Fanless cooling system
- Compact size 100 x 70 x 31 mm (w/o mounting bracket)
- Various mounting options: desk, wall, VESA, DIN-Rail
- Suitable for smart factory applications
- Microsoft Azure Certified for IoT



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System Specifications

CPU	NXP A9 i.MX 6 Dual Core 1GHz
System Memory	1GB up to 2GB

Storage

eMMC	Onboard 16GB (default), up to 32GB
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Interface

USB	2 x USB Type-A 2.0 1 x USB 2.0 OTG (Micro USB)
Ethernet LAN	2 x Giga LAN RJ45 Connector*
HDMI	1 x HDMI (Optional)
Power Input	Terminal Block / 2 Pin

Power Management

Power Input	9~36 V DC, 2 pin Terminal Block
Grounding Protection	Chassis Grounding

Buttons and LED Indicators

LED Indicators	1 x Power
Buttons	1 x Power Button 1 x Reset Button

Mechanical Specifications

Dimensions	100 x 70 x 31mm
Weight	0.4 kg
Mounting	Desk Mounting (Default), Wall Mounting (Default), VESA Mounting (Optional), DIN-Rail Mounting(Optional)
Cooling System	Fanless
Enclosure	Metal Housing

Environment

Operating Temperature	0~55°C
Storage Temperature	-15~70°C
Operating Humidity	10~90% RH (non-condensing)
Shock	Operating, IEC60068-2-27
Vibration	Operating, IEC60068-2-64
IP Rating	IP30

Standards and Certification

EMC	CE, FCC
IoT	Microsoft Azure Certified for IoT

Operating System (Optional)

OS	Android 6.0* Ubuntu 18.04
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Expansion Module (Optional)

EACWSLT-222	WWAN Expansion Board (Single SIM Slot)
EACWSLT-231	3-port RS232/422/485 w/ isolation
EACWSLT-232	16-Channel Digital I/O w/ isolation
EACWSLT-233	2-port CANBUS w/ isolation
EACWLSL-234	3-port USB 2.0
EACWLSL-235	2-port RS232/422/485 w/ isolation

Accessories

Standard Accessories

Quick Start Guide	91521110103J
Terminal Block 2 pin to 2.5ØFemale Adapter Cable	94J602G020K2
Open Wire Cable with terminal block 2 pin connector	94EL02X020E0
WLAN External Antenna (For EACFA20-101-F116)	397SM000000D
WWAN External Antenna (For EACFA20-102-F116)	397SM000000C

Optional Accessories

DIN Rail Mounting Kit	98K000A00099
VESA Mounting Kit	98K000A0009A
AC Adapter 12V/36W	922D036W12V6

Note : *The Android OS option for EACFA20 will only support 1 x LAN

Order information

EACFA20-100-F116	NXP i.MX6, 1G RAM, 16GB eMMC, 2 x USB 2.0, 2 x GbE LAN, 1 x HDMI (Optional)
EACFA20-101-F116	NXP i.MX6, 1G RAM, 16GB eMMC, 2 x USB 2.0, 2 x GbE LAN, 1 x HDMI (Optional), Wi-Fi
EACFA20-102-F116	NXP i.MX6, 1G RAM, 16GB eMMC, 2 x USB 2.0, 2 x GbE LAN, 1 x HDMI (Optional), 4G

Combination Table

1st layer	2nd layer	WWAN(Single SIM) (EACWSLT-222)	3 ports COM (EACWSLT-231)	16 channel DIDO (EACWSLT-232)	2 ports CANBUS (EACWSLT-233)	3-ports USB (EACWSLT-234)	2 ports COM (EACWSLT-235)	2 ports Giga LAN (EACWSLT-236)
EACFA20-100-F116		○	○	○	○	○	○	○
EACFA20-101-F116		○	○	○	○	○	○	x
EACFA20-102-F116		x	○	○	○	○	○	x

○: Support X: Do not support

Drawing

