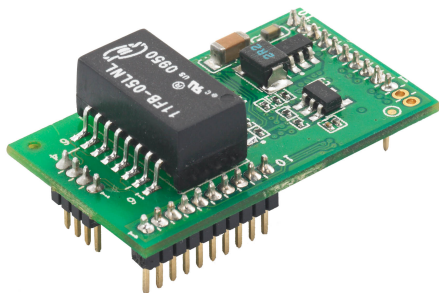


MiiNePort E2 系列

10/100 Mbps 內嵌式 pin header 模組串列裝置伺服器



特色與優點

- 提供最小的內嵌裝置伺服器 - 僅 29 x 17 x 12.6 mm
- 支援 EZPower 進行 3.3 至 5 VDC 系統電源輸入
- 採環保設計，擁有極低的耗電量
- 使用 Moxa 高品質以及可靠的第二代 MiiNe SoC
- MiiNePort NetEZ 技術使得整合變得異常簡單
- 藉由實際 COM/TCP/UDP/RFC2217/MCSC 獲得操作適應性

認證



簡介

Moxa 的 MiiNePort E2 系列內嵌裝置伺服器是專為希望以最低限度的整合工作，在其串列裝置中加入複雜網路連接的製造商所設計。MiiNePort E2 是由 Moxa 的第二代 SoC - MiiNe 提供授權，可支援 10/100 Mbps 乙太網路（提供最高可達 921.6 kbps 的串列傳輸速率），有多種即用型操作模式可供選擇，並且僅需最低限度的電力。藉由 Moxa 創新的 NetEZ 技術，MiiNePort E2 可將具有標準串列介面的任何裝置轉換為啟用乙太網路的裝置。此外，MiiNePort E2 是一款未使用 RJ45 接頭的尺寸最小的內嵌裝置伺服器，使其能夠輕易地安裝至幾乎任何現有的串列裝置。

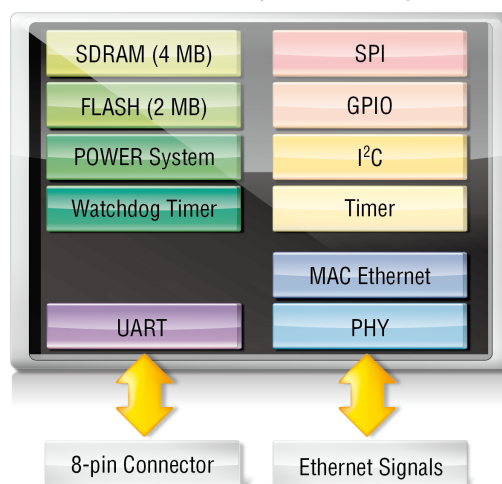
Moxa 的第二代 SoC

MiiNe 的建立旨在為製造商提供全面的內嵌式串列轉乙太網路解決方案。使用 MiiNe 作為其 SoC 的 MiiNePort E2 是一款全球尺寸最輕巧的內嵌裝置伺服器之一，在類似的產品當中擁有最低的耗電量。

MiiNe 的特性包括：

- 符合成本效益的串列至乙太網路轉換
- Arm 核心
- 先進的 UART 技術
- 內建 2 個 MB 快閃和 4 個 MB SDRAM 記憶體

MOXA MiiNe (196-pin CPU)



規格

Embedded System

CPU	32-bit Arm Core
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Memory

Flash	2 MB
SDRAM	4 MB

Input/Output Interface

Configurable DIO Channels (by software)

4

Ethernet Interface

10/100BaseT(X) Ports, Auto MDI/MDI-X

4-pin pin header

Magnetic Isolation Protection

1.5 kV (built-in)

Ethernet Software Features

Configuration Options

Web Console (HTTP), Windows Utility

Management

ARP, BOOTP, Device Search Utility (DSU), DHCP Client, IPv4, SMTP, SNMPv1, TCP/IP, Telnet, TFTP, UDP, ICMP

Windows Real COM Drivers

Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded

Linux Real TTY Drivers

Kernel versions: 2.4.x, 2.6.x, 3.x, 4.x, and 5.x

Fixed TTY Drivers

SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X

Android API

Android 3.1.x and later

Serial Interface

No. of Ports

1

Serial Standards

TTL

Operation Modes

MiiNePort E2 Series: Real COM mode, RFC2217 mode, TCP Client mode, TCP Server mode, UDP mode, Ethernet Modem mode, MCSC mode
MiiNePort E2-SDK: Real COM mode, Ethernet Modem mode

Baudrate

MiiNePort E2 Series: 50 bps to 230.4 kbps
MiiNePort E2-H/-SDK Series: 50 bps to 921.6 kbps

Data Bits

5, 6, 7, 8

Stop Bits

1, 1.5, 2

Parity

None, Even, Odd, Space, Mark

Flow Control

None, RTS/CTS, DTR/DSR, XON/XOFF

Serial Signals

TTL

- TxD, RxD, RTS, CTS, DTR, DSR, DCD, RST (reset circuit), GND

NetEZ Technology

NetEZ Functions

EZPower, EZPage, SCM (Serial Command Mode), AutoCFG, MCSC (Multi-Channel Serial Communication)

Serial Software Features

Serial to Ethernet Sample Source Code

MiiNePort E2-SDK (Integrated in MiiNePort-IDE):

1. TCP Server Echo
2. TCP Server to Serial (Single connection)
3. TCP Server to Serial (Multi-connection)
4. TCP Client Echo
5. TCP Client to Serial (Startup)
6. TCP Client to Serial (Any character)
7. TCP Client to Serial (Designed destination TCP/IP port from serial)
8. UDP Echo
9. UDP to Serial

Power Parameters

Input Current	157 mA @ 3.3 VDC
Input Voltage	3.3 to 5 VDC

Physical Characteristics

Dimensions	MiiNePort E2/E2-H/E2-SDK Series: 29 x 17 x 12.6 mm (1.14 x 0.67 x 0.50 in)
Weight	MiiNePort E2/E2-H Series: 5 g (0.01 lb) MiiNePort E2-ST/E2-H-ST/E2-SDK: 77 g (0.17 lb)
Form Factor Type	Drop-in modules

Environmental Limits

Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 60°C (-40 to 140°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class B
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 0.5 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11
Environmental Testing	IEC 60068-2-1 IEC 60068-2-1 IEC 60068-2-3
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	5,696,350 hrs
Standards	Telcordia SR332

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

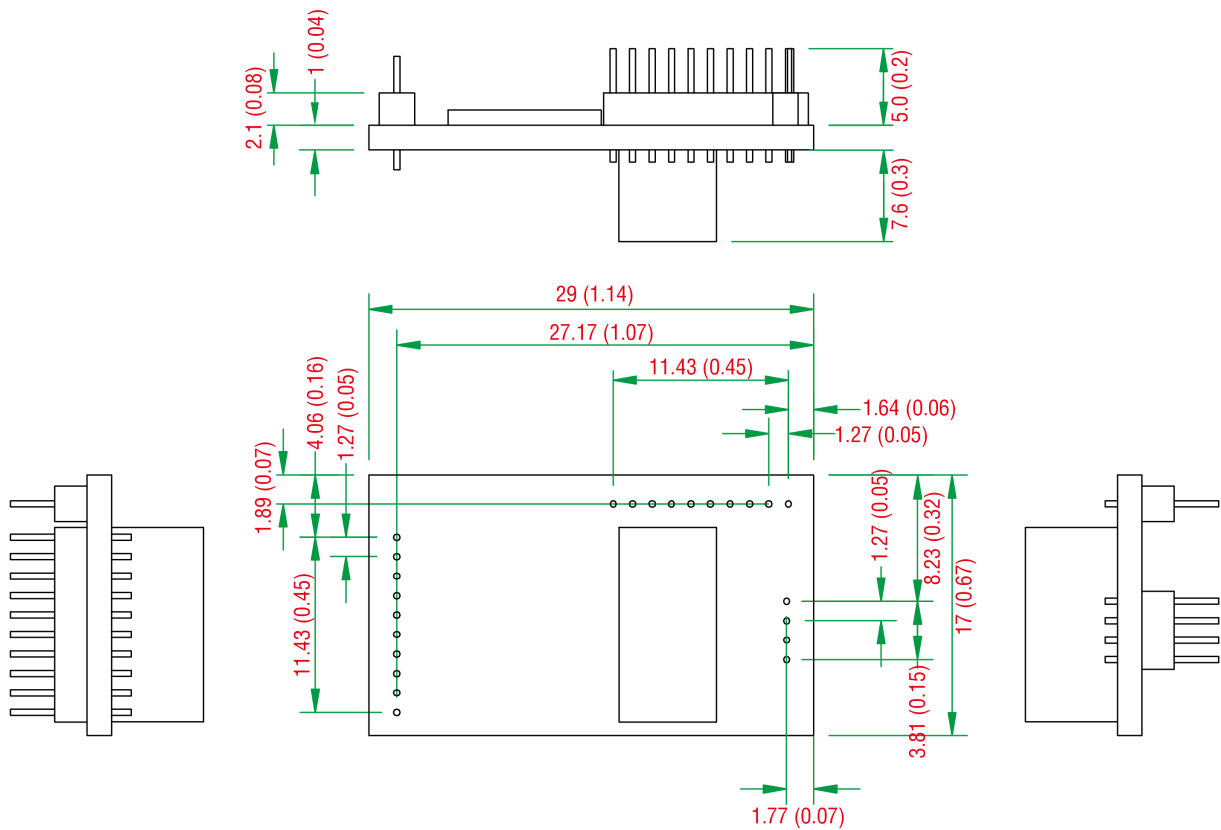
Package Contents

Device	1 x MiiNePort E2 Series device server
Cable	1 x Ethernet, crossover cable (-ST/-SDK models) 1 x null modem serial cable (-ST/-SDK models) 1 x USB cable (-SDK model)

Power Supply	1 x power adapter, universal (-ST/-SDK models) 1 x power cord, EU type (-ST/-SDK models) 1 x power cord, US type (-ST/-SDK models)
Documentation	1 x quick installation guide (-ST/-SDK models) 1 x warranty card (-ST/-SDK models)

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	No. of Serial Ports	Supported Baudrates	Operating Temp.	With Evaluation Board	With Software Development Kit
MiiNePort E2	1	50 bps to 230.4 kbps	0 to 55°C	–	–
MiiNePort E2-H	1	50 bps to 921.6 kbps	0 to 55°C	–	–
MiiNePort E2-T	1	50 bps to 230.4 kbps	-40 to 85°C	–	–
MiiNePort E2-H-T	1	50 bps to 921.6 kbps	-40 to 85°C	–	–
MiiNePort E2-ST	1	50 bps to 230.4 kbps	0 to 55°C	✓	–
MiiNePort E2-H-ST	1	50 bps to 921.6 kbps	0 to 55°C	✓	–
MiiNePort E2-SDK	1	50 bps to 921.6 kbps	0 to 55°C	✓	✓

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