![Anybus by HMS Networks logo]

Anybus 邊緣網關 MIO16 UMTS

借助 Anybus 邊緣網關，可以輕鬆安全地訪問來自工業設備和機器的數據，還允許在應用程序生命週期內進行完整的數據和設備管理。Edge 網關支持邊緣智能、智能分散操作，可以在靠近數據源的地方執行。從網關，用戶定義的數據通過 HMS Hub 通過安全連接提供到雲。該解決方案非常適合監控應用，還可以通過物聯網應用以智能方式控制所有連接的工業設備。

特點與優勢

- HMS 中心連接
- 實現輕鬆的遠程控制和管理
- 提供Modbus-TCP客戶端/服務器和Modbus-RTU主/從接口
- 啟用 OPC UA、MQTT、SNMP、SNTP 通信
- 強大的圖形邊緣智能設計工具
- 簡單的網頁配置界面
- 防火牆、OpenVPN 和密碼保護
- NAT路由
- TLS 數據加密
- HTTPS 端口使用
- 設備發起的連接
- 中央或本地設備管理
- 可大規模部署的更新
- 實時狀態信息
- 警報和自動響應

連通性

MODBUS-RTU
- 4096 個值（最多 8192 個值，包括數組成員）
- Modbus-RTU 主/從
- 多達 128 個設備

MODBUS TCP
- 4096 個值（最多 8192 個值，包括數組成員）
- Modbus-TCP 客戶端/服務器

OPC UA SPECIFICATIONS
- Supports Discovery Services
- User name and password authentication
- Security policy Basic256Sha256 / Basic128Rsa15 / None

MQTT SPECIFICATIONS
- MQTT client acting as publisher/subscribers
- MQTT version 3.1 - 3.1.1
- Last Will and QoS 0-2 supported
- User name and password authentication
- TLS

SNMP MANAGER
- Up to 128 agents and 4096 values Trap receiver

NETWORK CONNECTIVITY

- OpenVPN client: Integrate the device into a virtual private network
- DHCP server: Up to 100 clients, up to 20 static leases
- NAT: Route traffic between a local (internal) and a global (external) network, up to 1000 mappings, up to 50 static mappings
- Firewall: Filter incoming traffic, up to 1000 rules (including dynamic rules for outgoing traffic), up to 50 static rules

UMTS/3G
- Integrated Global UMTS and 3G Support
- External Antenna Connector

ANALOG/DIGITAL I/O (MIO16)
- Analog
  - 8 x channels (voltage or current)
  - input type configurable per channel: 0 - 10 V / 4 - 20 mA (+/- 3%)
- Digital
  - 8 x channels (input or output)

SECURITY

Secure data at every level

Protecting the data on the journey between the factory floor and the enterprise software is only part of the story. Device and data security is an ever-growing concern in our day to day business. True security must be present at every level in an end to end solution. It would be no benefit to encrypt the data transfer if the value in the payload is already compromised. Data must be handled with care from the point it enters a system until the point it leaves.

Security features of Anybus Edge
- Firewall, OpenVPN & password protection – Controlling access to the devices is paramount in security. Access is not just about stopping connections but also ignoring them completely – to not be brought down by denial of service attacks.
- Root access authentication – Controlling the root access to a system ensures certain routines can never be interfered with.
- TLS data encryption – Protecting privacy and data integrity with strong encryption means that data gets to where it needs to be without being manipulated.
- Standard port usage – The device pushes and pulls data utilizing the outbound HTTPS connection enabling easy integration with standard firewalled environments.

Manage your devices to be ready for the threats of tomorrow

There exists an ever changing landscape today in the world of security. With our new-found access to global libraries of features and software, we must be prepared to maintain the integrity of a system by keeping it up to date and protected from threats. The largest security threat to any system is an out of date device with a known vulnerability. The concept of a fully hardened device that will be able to survive in the field without updates and feature enhancements is already a debunked myth. By providing all levels of update capability, the Edge system is designed to keep you protected into the unknowns of the future.

ECOSYSTEM
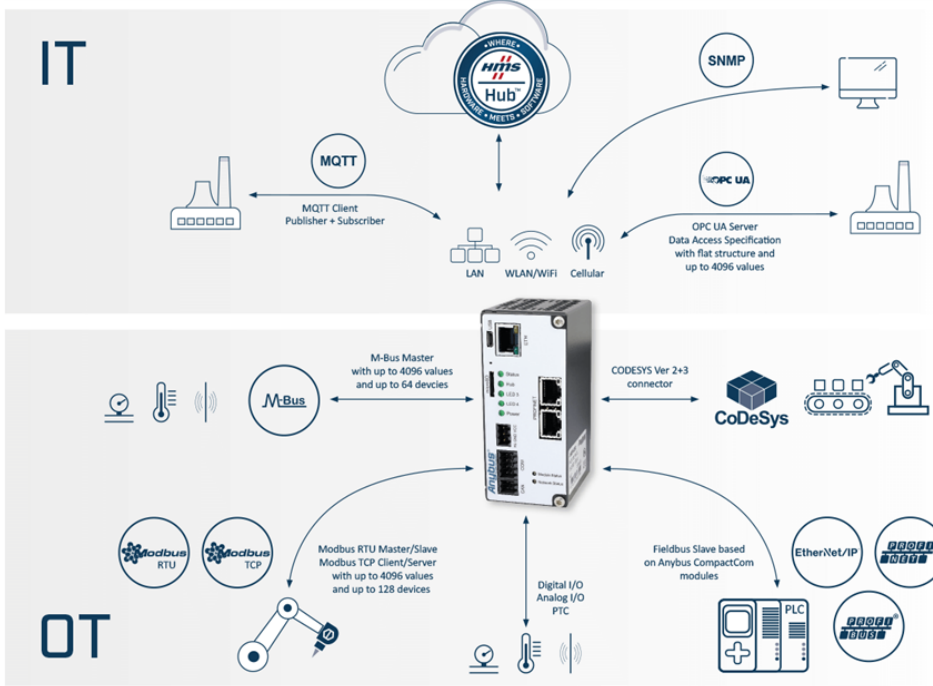
CONFIGURATION

Sequence

The Anybus Edge Gateways are built for ease of use. They feature HMS Sequence, a powerful graphical programming tool, to build your desired on-device Edge Intelligence. Configuration and deployment can be done locally or remotely via a simple web interface.

For detailed information about programming please visit the configuration section on the product support page.

技術規格

一般的

軟件	
操作系統	IPC@CHIP RTOS-LNX 實時操作系統
HMS 序列編輯器和運行時	在內部 Web 服務器上運行的可視化編程編輯器 - I/O 映射編輯器 - 多達 8192 個 I/O 值 - 多達 1024 個門戶變量

技術細節		標準
尺寸（長•寬•高）	100 系列：79 x 46 x 107 毫米 140 系列：79 x 65 x 107 毫米	
防護等級	IP20．NEMA 等級 1	IEC 60529
外殼材料	連續熱浸鍍鋁鋅鋼	
安裝位置	垂直位置	
安裝	DIN 導軌 (35•7,5/15)	EN 50022

認證		標準
UL	文件編號：待定	UL 508 工業 續。等式
行政長官	2014/30/歐盟 (EMC)	IEC 61000-6-3

		IEC 61000-6-2 IEC 62368-1

電氣特性	
力量	24 VDC · BL 3.50/03 連接器 +- 15 %
目前的消費	< 0.4 安

硬件特性	
反向電壓保護	是的
短路保護	是的

環境特徵	
工作溫度	0 至 +55 °C (+32 至 +131 °F)
儲存溫度	-20 °C 至 +60 °C
相對濕度	5 % 至 85 % 相對濕度 · 無冷凝

工業環境的免疫和排放		標準
靜電放電	+-4 kV 接觸 · +-8 kV 空氣	EN 61000-4-2
電磁射頻場	10 V/m 80 MHz - 1 GHz 3 V/m 1,4 GHz - 2,0 GHz 1 V/m 2,0 GHz - 2,7 GHz	EN 61000-4-3
快速瞬變	+-2 kV 直流 · +- 1 kV 信號	EN 61000-4-4
浪湧保護	+- 0.5 kV CM / +-1 kV DM on DC · +-1 kV 信號	EN 61000-4-5
射頻傳導干擾	10 伏/有效值	EN 61000-4-6
發射 (在 3 m 處)	0.15 MHz – 0.5 Mhz 40-30 dBµA/m (QP) 30-20 dBµA/m (Avg) 0.5 MHz – 30 Mhz 30 dBµA/m (QP) 20 dBµA/m (Avg)	EN 55016-2-3

單包配件
安裝單

安全

加密	TLS 2.3

3G/UMTS

頻率 GSM / GPRS / EDGE	四頻：850 / 900 / 1800 / 1900 MHz
頻率 UMTS / HSPA+	七頻段：800 / 850 / 900 / AWS 1700 / 1900 / 2100 MHz
電話卡	背面全尺寸 (1FF)推/推槽
天線接口	SMA女

MIO16

數字輸入/輸出	8 個通道（輸入或輸出）。 當用作輸出時，信號可以通過輸入功能讀回。 輸入：8 x 灌 電流（最大值）24 V DC，5 mA（典型值） TRUE：15 V DC min FALSE：5 V DC max 輸出： 8 x 晶體管（高端） 24 V DC，500 mA（最大值） 短路電路和抗過載 沒有電位隔離
模擬輸入	8 x 通道（電壓或電流） 輸入類型每通道可配置： 0 - 10 V / 4 - 20 mA (+/- 3 %) 無電位隔離
連接器	魏德米勒 BL 3.50/10

交貨內容

- 網關
- 快速入門文檔
- 連接器端子
- **不**包括電源

訂購信息

訂購代碼	ABE04033

包含快速入門文檔、USB 配置電纜。配置軟件可供下載。**不**包括
電源。3年保證。 有關購買說明以及條款和條件，請參閱： → 如何購買→