DAX View

DAXView mini

compact IoT direct digital control

DAXView mini
## Compact IoT DDC
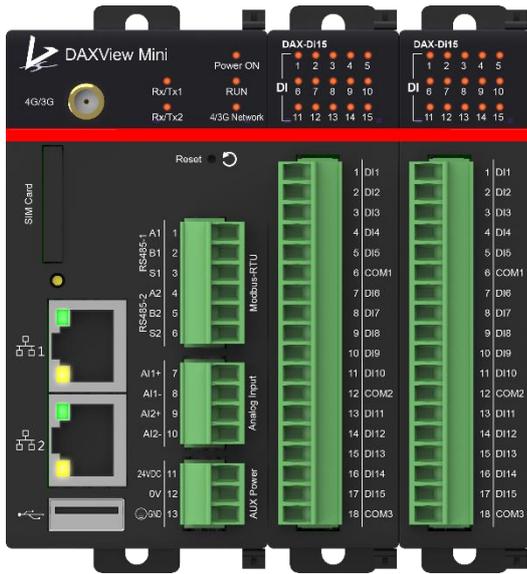
Fig 1. DAXView Mini with 2x Digital Input Module

Key Features:

Functions	Specification
Digital Input	2x15pts default (extendable to 4x15pts) (Dry Contact 230VAC rated) LED indicator each channel
Relay Output*	*Optional item 6pts Relay Type Rated to 230VAC 5A Configurable NO NC state
Analog Input	2pts (4-20mA)
RS485 Modbus-RTU	2ports (2-wire with Shield) (9.6kbps-115kbps)
RJ45 Ethernet	2ports switch (10/100Mbps) HTTP web service, Modbus-TCP/ BACnet-TCP/ OPC-UA, SNMP-v1/v2/v3
USB port	1x Type-A
Cellular Gateway	4G LTE/ 3G
Web Server	Local Network Browser Access with Admin Password protection
Time Clock	Internal RTC NTP Time Sync
Event Notification	SMS (default) MQTT, Email, Bacnet, SNMP, OPC
Power Supply Input	24V DC
Power Consumption	5W
Status LED Indicator	Power On System Run Cellular Network RS485 Communication

The DAXView mini is a compact IoT enabled Direct Digital Control (DDC) system. Users are able to configure the DAXView mini service without any programming effort.

Suitable for use in commercial and industrial facility for remote status monitoring, energy data logging & environment condition sensing. Some typical applications are:

- Electrical circuit breaker status
- Electrical protection relay status
- Power meter energy consumption logging
- Temperature & humidity logging
- Water meter logging
- Water leakage detection, fire alarm status
- Dry-Contact monitoring via Digital Input
- Modbus-RTU device reading and parameter logging (user configurable Modbus profile)
- BACnet-TCP, OPC-UA, Modbus-TCP, SNMP-V1/v2/v3 data exchange

Device point count supports:

- 30pts Digital Input standard (expandable to 60pts)
- 2x 30 Modbus-RTU devices
- 2pts Analog Input 4-20mA Input
- Optional Relay Output module with 6pts NO/NC configurable state

All status events and data logging reading are stored in the 16GB internal flash storage. User can configure specific device parameter to be recorded and the record time interval. NTP time stamp is used for accurate events and log record.

The DAXView mini comes with integrated 4G LTE cellular radio modem and supports SMS alert notification by default. MQTT push messaging is supported to allow open protocol Cloud enabled remote logging and mobile app* alert notification. Device logging report can be generated and download as CSV files and automatically sent via email to users.

Relay Output function is controlled by issuing Write command to MQTT, Modbus-TCP address.

DAXView mini
Compact IoT DDC

Dimension & General Specification
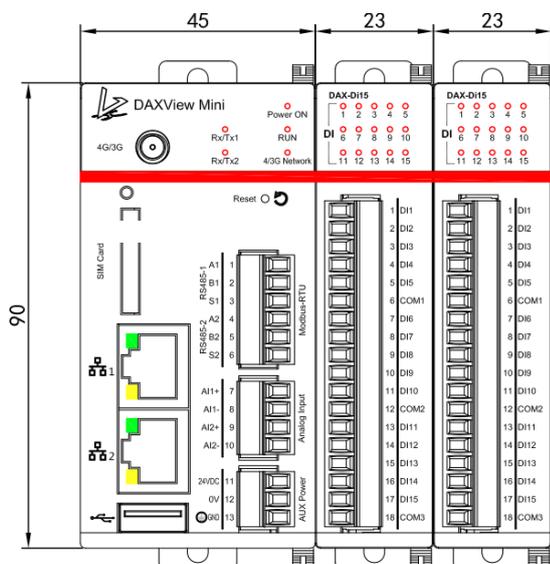
Fig 2. Front view dimension (mm)
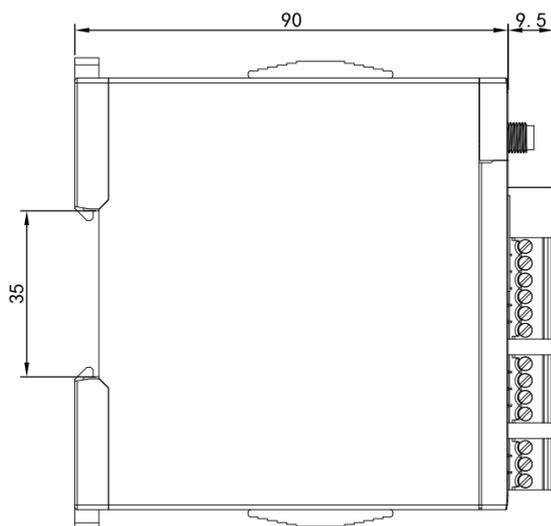
Fig 3. Side view dimension (mm)

Operating Specification	
CPU	ARM9 32-bits 300MHz
RAM	128MB
SPI NAND Flash memory	128MB
Operating System	Linux BSP
Storage memory	16GB Flash Storage
Clock	Internal RTC with NTP time sync function
RTU Device Protocol	Modbus, 2x30 RTU slave devices
Digital Input (Pluggable Module)	15pts/ Module Dry Contact (230VAC, 5A rated)
Digital Output (Pluggable Module)	6pts/ Module Relay Output (230VAC, 5A rated)
Analog Input (Onboard)	4-20mA
Cellular Radio Network	4G LTE/ 3G
AUX Power Supply	24V DC, 5W
Operating Temperature	-20°C to 70°C ambient
Relative Humidity	5 to 95%RH non-condensing
IP Protection	IP 40 (front panel)
Dimension & Weight	90mm x 91mm x 99.5mm (Height x Width x Depth) 200g

Standards Compliance & Rating	
IEC61000-4-2	ESD: Conducted:2kV; Air:4kV
IEC61000-4-3	EMC: Testing and measurement
IEC61000-4-4	EFT: 4kV
IEC61000-4-5	Surge: 4kV
IEC61000-4-6	EMC: 150KHZ~80MHZ: 3V/m
IEC 61010-1:2010	Safety Isolation

User can create custom Modbus-RTU device profile in the DAXView mini, to connect any Modbus-RTU meter/ sensor into the DAXView mini, auto save the device reading and send as Email CSV report. All devices live values are transmitted to all the available IP network protocol (MQTT, Modbus-TCP, Bacnet-TCP, OPC-UA, SNMP). Multiple sets of DAXView mini (up to 254) can be linked via the Dual Ethernet Port connection to share Internet data sending from a single mobile cellular SIM account (email, MQTT, Modbus-TCP, BACnet-TCP, OPC-UA, SNMP data packet).

(Note: SMS sending is only accessible on the same set where the Digital Input and Controller are attached. For multi-set daisy chained setup, we recommend using MQTT/BACnet/OPC/SNMP for sending alert notification to avoid mobile network SMS service delay.)

DAXView mini
Compact IoT DDC

Product Ordering Code

The DAXView mini is offered as a Standard Set comprise of the Mini Controller and
2pcs of mini Digital Input Modules. Up to 4pcs of mini Digital Input Module can be attached
to each mini Controller.

Part Number	Item Description	Item type
DAXView mini -A	DAXView mini Standard Set -mini Controller (1pc) -mini DiM-15 (2pcs)	Standard Set
DIM-15	Digital Input Module 15pts (Dry Contact)	Remote I/O
DOM-6	Digital Output Relay Module 6pts (User configurable NO/NC state)	Remote I/O

Specification are subjected to change without notice.

Mun Hean Singapore Pte Ltd

51 Kim Keat Road, #05-01/02,
Mun Hean Industrial Building,
Singapore 328821

www.munhean.com
sales@munhean.com.sg