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SCADA / PC SERIES



SCADA / PC SERIES

Product Catalog

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MX On Corporation Is an AX·DX-Based Smart Factory Total Solution Platform Company with Technical Expertise Extending from HMI/SCADA Development and Manufacturing to Robot Control and Logistics Automation.

SCADA / PC SERIES

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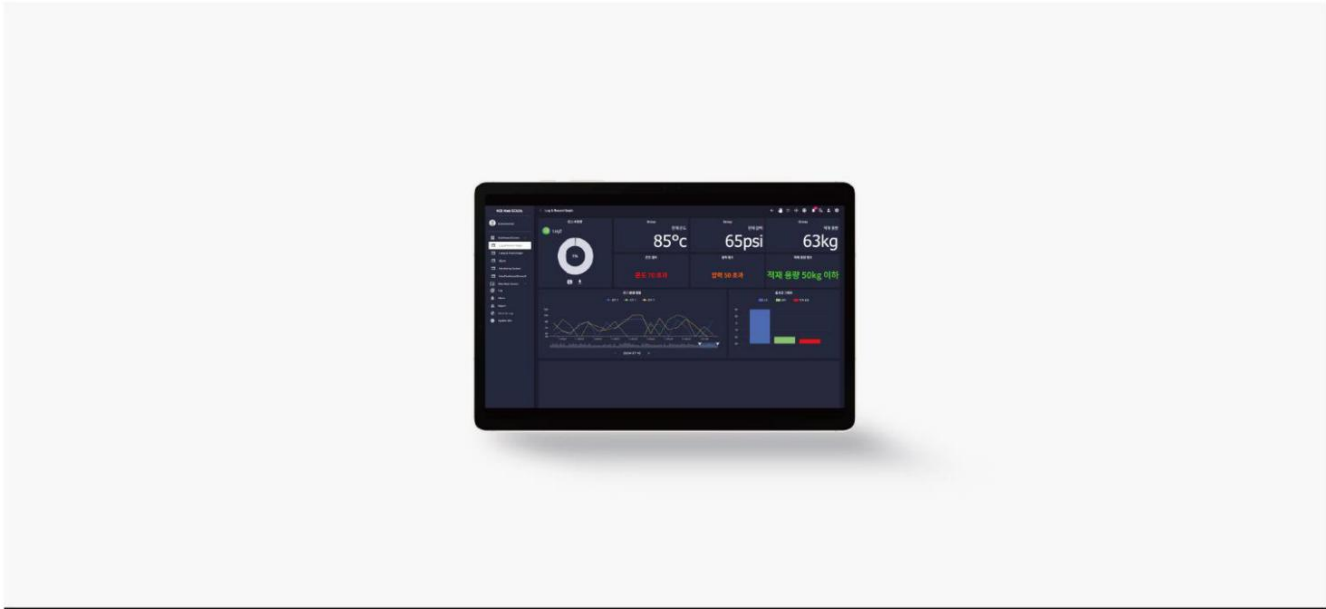
SCADA / PC LINE-UP



TOP-VIEW SCADA 100, 300, 600, 1300, 2000, Full Tags

Integrated Operation System for Real-Time Monitoring and Control of Industrial Equipment and Processes

Industrial SCADA



TOP-WVIEW Web SCADA Concurrent Users – Supports 2, 5, 10, or Unlimited

Web-Based SCADA for Real-Time Monitoring and Control via a Web Browser

Industrial Web SCADA



TOP-PCVIEW 19 17 15 12 10

Panel-Type PC with a Robust Aluminum Frame and Touch Interface for Stable Operation

Industrial Panel PC



MPC BOX PC

Box-Type PC with Efficient Heat Dissipation Structure and Robust Build

Industrial Box PC

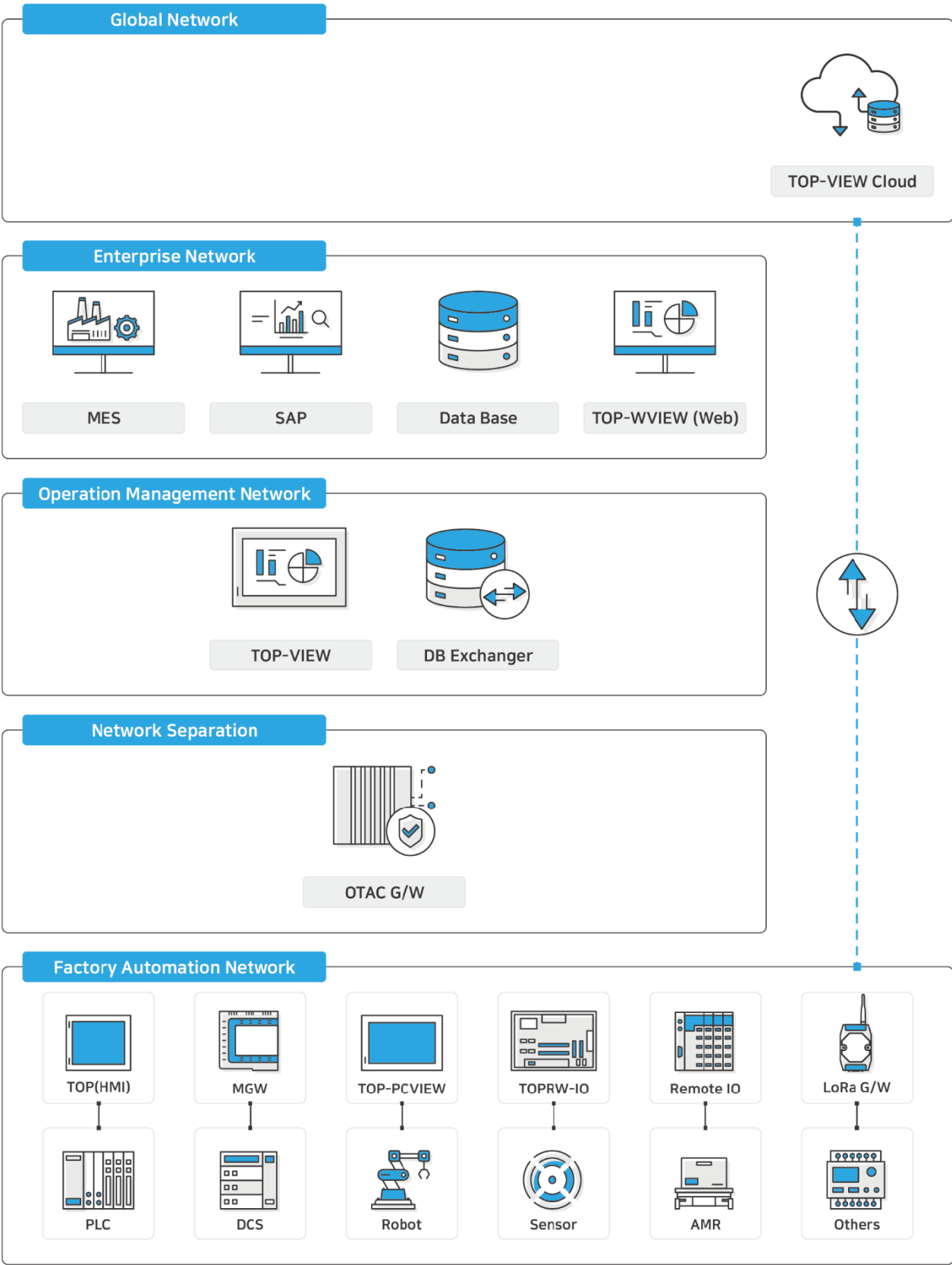


MDP Touch Monitor 19

Touch Monitor with 1 or 2 Channel Support, FHD Display, and Capacitive Touch for Harsh Environments

Industrial Touch Monitor

TOP-VIEW Based Smart Factory Integrated Architecture



KEY FEATURES



Easily Integrate with Higher-Level Systems Using a Database

With an Intuitive UI, You Can Easily Link, View, and Edit Database Entries.
HMI Data Can Also Be Stored in the Database via the DB Exchanger Function and Accessed from SCADA.



Provide Various Types of Reports According to User Requirements

Users Can Create or Print Reports in Various Formats Using Excel.
Various Templates Used On-Site Can Also Be Applied, and Reports Can Be Printed Directly via a Printer Without Opening Excel.

21 CFR Part 11

Provides 21 CFR Part 11 Security

Complies with the U.S. FDA 21 CFR Part 11 Standard, Enabling Worker Authentication, Audit Trail Tracking, Database Management, and PDF Handling for a Safe and Efficient Working Environment.

VNC

Proprietary VNC Provided

With Our High-Performance Proprietary VNC, You Can Remotely Access TOP & TOP-VIEW Screens in Industrial Sites and Monitor or Control Them in Real Time via Mobile, Tablet, or PC.

OPC UA

Supports Industrial-Standard OPC UA

The Forward-Looking and Highly Extensible OPC UA Protocol Enables Reliable Data Collection and Management, Seamlessly Integrating with Higher-Level Systems.

SECS / GEM

Supports SECS / GEM Protocol

Supports HSMS SECS/GEM Communication Protocols Used in the Semiconductor Industry, Ensuring Reliable Data Communication According to Specific Scenarios.

Hermes Standard

Supports Hermes Standard Communication Protocol Between SMT Equipment

Using the Hermes Standard Protocol, Data Communication Between SMT Equipment Is Possible Without Additional Devices or Extra Costs.

SMS & Email

SMS & Email Transmission

Automatically Sends SMS and Emails Stored in the Program Based on Field Conditions, Allowing Supervisors or Customers to Instantly Check the Factory Status.



Optimized Data Analysis

TDS Enables Efficient Data Retrieval and Table-Based Monitoring, Offering Intuitive Data Analysis Through Various Charts Such as Trend, Record, Bar, Meta, and Pie Graphs.

400+ Protocol

Full Support for 400+ Industrial Communication Protocols

Supports Various Industrial Communication Protocols for Stable Data Integration Between Equipment and Systems, Enabling Flexible Configuration and Operation Even in Complex Industrial Environments.

[SCADA] TOP-VIEW Features

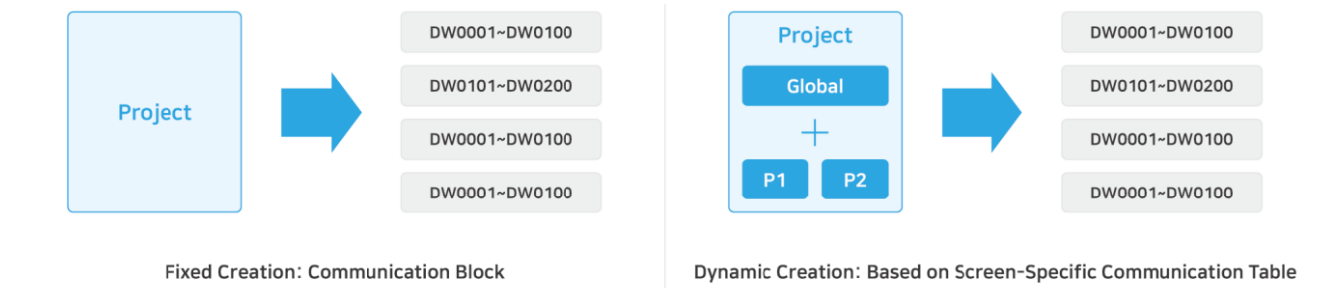
Outstanding Screen and Data Processing Performance

Exceptional Performance and Reliability

TOP-VIEW features a high-speed Runtime Engine optimized for real-time control and monitoring, delivering fast and reliable screen rendering and data processing performance. Optimized screen rendering and an efficient data processing architecture enable rapid screen transitions while ensuring consistent performance and stability, even in large-scale Tag and multi-screen environments.

Flexible Communication Configuration and Diverse Communication Control Functions

TOP-VIEW supports both the traditional communication block method and the screen-based communication method that minimizes communication load, providing an optimized communication configuration for various operating environments. In addition, various communication control functions such as forced continuous processing, PLC communication enable/disable, Send Wait, and Timeout enhance stable data communication and system performance.



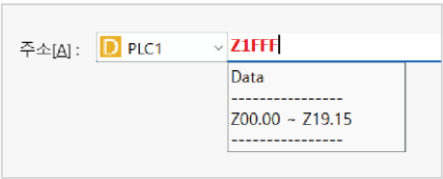
Intuitive GUI-Based Interface

No-Code Based Intuitive UI and Animation

TOP-VIEW provides key functions through an intuitive GUI environment, allowing users to easily configure desired monitoring and control screens without any programming knowledge. Through its intuitive screen design environment, users can quickly and efficiently build high-quality monitoring and control systems without the need for IT expertise.

Improved Development Stability through Pre-Error Detection

TOP-VIEW provides various diagnostic and validation functions, including PLC address error detection, database query verification, script syntax checking, and build error list generation, to detect potential errors in advance during the development stage. This reduces debugging time, improves development efficiency, and shortens the deployment period of SCADA systems.



Error Detection Function Examples

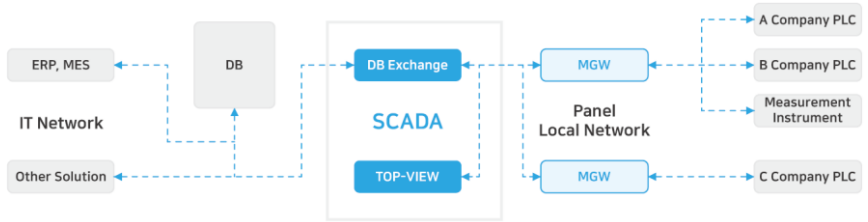
Advanced Features for Experts

Flexible Communication Based on User-Defined Protocols

TOP-VIEW enables users to directly develop communication drivers for equipment using dedicated protocols through its user-defined protocol function, in addition to the built-in controllers. It supports both ASCII and HEX data formats and can be implemented in Serial and Ethernet communication environments, providing flexible integration with various devices and high scalability.

Efficient Data Collection through DB-Exchanger

DB-Exchanger enables direct integration between the company's HMI and databases (DB), allowing efficient collection and integrated management of various data. This enhances data utilization and enables more efficient system integration.



Improved Development Productivity through Style-Template-Based Approach

TOP-VIEW enables efficient reuse of TDS files created through Style, Template, and Global Object functions. Multiple projects can be stored within a single TDS file and easily loaded and utilized as needed, reducing repetitive tasks and improving development productivity for SCADA systems.

JavaScript Support and Enhanced Project Security

TOP-VIEW provides a flexible JavaScript-based development environment, allowing IT developers to easily implement various functions in a familiar programming style. In addition, the script password setting function securely protects source codes and development assets, effectively safeguarding core technologies and intellectual property.

System Analysis and Monitoring Support

TOP-VIEW provides various analysis and diagnostic tools, including large-scale data analysis tools, system monitors, and communication frame monitors. These tools optimize system performance during the development stage and enable real-time analysis and monitoring of system status during operation, providing a stable operating environment.

Excellent Performance and Stability

Over 30 Years of Accumulated Technology and Expertise

Based on accumulated technology and operational experience across various industries, we provide proven stability and high-quality performance.

Proven Stability in 24/365 Semiconductor Production Lines

Provides stable data collection and equipment control even in uninterrupted continuous operation environments.

Stable System Operation Even After OS Updates

Provides stable compatibility and consistent system performance even after operating system changes or security updates.

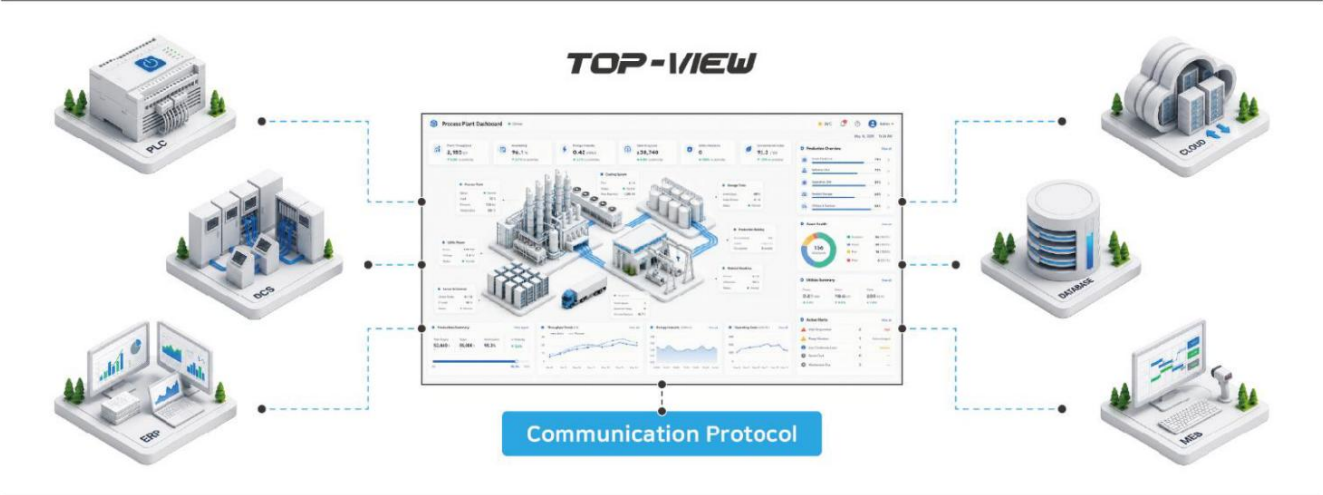
Proven Stability Even in Security-Critical Industrial Environments

TOP-VIEW provides differentiated solutions even in industrial environments requiring high levels of security and stability, such as defense and national infrastructure facilities.

[SCADA] TOP-VIEW Detailed Functions

Various System Integration and Excellent Scalability

TOP-VIEW provides fast and stable screen and data processing performance based on a high-speed Runtime Engine optimized for real-time control and monitoring. Through optimized screen rendering and an efficient data processing structure, it delivers fast response and screen transitions, while ensuring outstanding performance and stable system operation even in large-scale Tag and multi-screen environments.



OPC UA

TOP-VIEW supports the international standard communication protocol OPC UA and provides both Server and Client functions. This enables stable, standards-based data integration with various systems such as PLC, DCS, and MES.

DB Exchanger

TOP-VIEW integrates with databases (DB) through DB Exchanger to minimize database connection load. In addition, it maintains data connectivity even when changing SCADA and HMI projects, supporting stable system operation without interruption.

ODBC

TOP-VIEW supports standard ODBC, enabling easy integration with various databases and efficient construction of an integrated environment with multiple systems and solutions.

Message Sending Function

TOP-VIEW immediately delivers system alarms and major events that occur during operation to designated personnel through messages and emails. This enables rapid response to failures and supports stable system operation.

Cloud Solution

TOP-VIEW supports the MQTT protocol, enabling real-time data transmission and reception with PLCs, IoT sensors, gateways, and various cloud platforms. This allows efficient construction and stable operation of smart factory and IoT monitoring systems.

REST API

TOP-VIEW supports the standard HTTP-based REST API, enabling easy integration with various IT systems and services without the need to develop dedicated drivers. (e.g., Korea Meteorological Administration API, address search, map services, etc.)

User-Defined Protocol

TOP-VIEW provides a User-Defined Protocol function that allows users to design and operate communication protocols directly. This enables flexible integration with devices that are not supported by default or equipment using dedicated proprietary protocols.

Integrated Monitoring Anytime, Anywhere

TOP-VIEW provides an integrated monitoring environment based on web and cloud technologies, enabling real-time monitoring and control of equipment status anytime and anywhere from various devices such as PCs, tablets, and mobile devices. In addition, it provides a secure and efficient remote monitoring environment through authority-based access control and independent screen operation for each client.



Web Default Screen

TOP-VIEW provides the same screen layout and operation method as the existing SCADA system in a web environment. This enables a familiar user experience without additional training and allows multiple users to easily utilize the system.

Permission-Based Control

TOP-VIEW allows only users who have acquired control authority to operate equipment in the web environment. In addition, user account-based permission settings ensure that only authorized operators can access control functions, preventing incorrect operations and supporting stable system operation.

HTML5 Standard Web Support

TOP-VIEW applies HTML5-based web technology, allowing users to access SCADA through a web browser without installing any additional programs. It provides the same user experience across PC and mobile environments, reducing maintenance and deployment costs while improving operational efficiency.

Web Dashboard Screen

TOP-VIEW provides a web dashboard that automatically optimizes screen layouts and configurations according to the resolution and screen size of the connected device. This delivers an optimal user experience across various environments, including PCs, tablets, and mobile devices.

Client-Specific Screen Monitoring

TOP-VIEW does not share the same server screen with all clients but supports independent screen configuration and operation for each client. This provides a monitoring environment optimized for each user's specific tasks and requirements.

TOP-Cloud

TOP-VIEW enables an easy-to-build cloud-based monitoring environment through the TOP-Cloud service without complicated development processes. Wherever an internet connection is available, users can check and manage equipment status and operational conditions in real time, supporting efficient remote monitoring and control.

[SCADA] TOP-VIEW Detailed Functions

Various Operation Support

TOP-VIEW provides optimized features for various operating environments of companies adopting SCADA systems. It supports user authentication, access control, and stable system operation while effectively responding to various potential risks that may occur in industrial sites.



21 CFR Part 11 Compliance Support

TOP-VIEW provides features that support the requirements of the U.S. FDA 21 CFR Part 11, ensuring data integrity and system security even in regulated industrial environments.

User Authentication

Supports authentication through user accounts and passwords, enhancing user identification and security through password policies, account lockout, and login history management.

Access Control Management

User-specific permissions can be configured to restrict feature access and equipment control ranges, providing a role-based operating environment.

Data Integrity

Maintains the integrity of data generated by the system to prevent tampering or unauthorized modification. Reports can also be viewed through a dedicated Viewer or exported as PDF files.

Audit Trail

Automatically records the history of major data and configuration changes within the system, allowing users to track previous and updated values, the person who made the change, the time of change, and the reason for the modification.

Electronic Signature

Supports electronic signatures for critical configuration changes, recipe modifications, and approval processes, enhancing work reliability and traceability.

Dynamic Code Authentication

TOP-VIEW supports one-time Dynamic Code authentication to prevent account hijacking and unauthorized access. It allows only authorized operators to control equipment, preventing malfunctions, production interruptions, and safety incidents while enhancing accountability for control operations and overall system security.

Redundant System Environment Support

TOP-VIEW supports server and system redundancy environments to maintain service continuity even in the event of failures. It enables uninterrupted system operation and stable equipment control, providing an optimized operating environment for industrial applications requiring high availability.

Tools for Improving Development Productivity

Provides various tools that can be utilized throughout the entire process from project development to operation and maintenance, improving development productivity, reducing deployment time, and enhancing operational efficiency.

System Monitor

TOP-VIEW monitors Runtime Scan, Draw Scan, controller connection status, and communication speed in real time, allowing users to check the overall system status at a glance. This enables system performance analysis and rapid detection of potential issues.

Communication Table Monitor

TOP-VIEW monitors communication tables and real-time data for each screen, while also providing visibility into system addresses and special addresses. In addition, the Watch List function enables users to compare and analyze screen status and variable values, providing an efficient debugging environment.

Log & Recipe Viewer

TOP-VIEW allows users to directly view and monitor time-sequential log data and production recipe information within the Runtime environment. This enables efficient operation history management and production data analysis.

Address Conversion Function

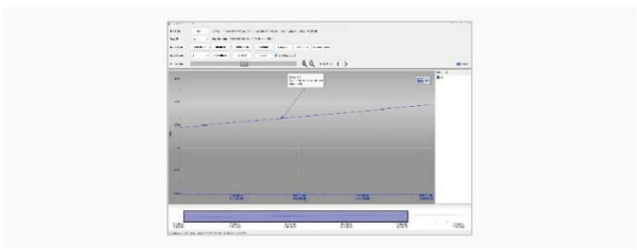
TOP-VIEW applies various conversion rules to modify tag addresses configured in a project in bulk. It enables fast and accurate large-scale address changes, improving development productivity and reducing human errors that may occur during manual operations.

Bulk Property Change

TOP-VIEW provides a function that allows users to change the same properties of multiple objects at once. It reduces repetitive editing tasks and improves efficiency in screen design and maintenance.

Large-Scale Log Analysis Tool

TOP-VIEW enables fast searching and analysis of large-scale log data, allowing users to quickly identify the root causes of issues. This reduces troubleshooting time and improves overall system operation efficiency.



[SCADA] TOP-VIEW Key Deployment Cases

Reliability Proven in Industrial Environments

TOP-VIEW provides a SCADA solution optimized for customer operating environments based on accumulated implementation experience across various industries and proven technological expertise.

Semiconductor

24/7 Integrated SCADA Solution for Semiconductor Utility Environments

As a proven SCADA solution in the semiconductor industry, where 24/7 continuous operation is essential, TOP-VIEW is applied to various utility systems including Ultra Pure Water (UPW), Clean Dry Air (CDA), gas supply, Cooling Water (CW), and HVAC. In addition, it provides hardware solutions suitable for explosion-proof environments, supporting stable equipment operation and improved productivity.



Smart Factory

Integrated Monitoring and Operation Platform for Connected Manufacturing Data

TOP-VIEW supports extensive communication with various manufacturing equipment and controllers to efficiently collect manufacturing data. It strengthens manufacturing competitiveness by integrating with MES and ERP through standard technologies such as databases (DB) and OPC UA. In addition, its web-based monitoring environment enables real-time sharing of manufacturing information, supporting KPI analysis and productivity improvement.



Food & Pharmaceutical

Smart Manufacturing Solution for Regulatory Compliance and Data Reliability

TOP-VIEW provides functions that support regulatory requirements in the food and pharmaceutical industries, strengthening data integrity and traceability through user permission management and equipment operation history management. Various compliance features, including Audit Trail, user authentication, and electronic signatures, enable the establishment of a reliable production environment.



Power, Water Treatment & Railway Infrastructure

Reliable Infrastructure Operation Solution Based on High Availability and Security

TOP-VIEW supports redundant (HA) configurations to provide high stability and availability for infrastructure environments requiring uninterrupted operation. With enhanced security features, it enables safe and reliable operation of critical facilities in national infrastructure and security-sensitive industrial environments.



Building Control

Flexible Integration and Efficient Facility Operation Solution

TOP-VIEW enables flexible integration with various equipment and systems, including specialized HVAC facilities and lighting systems, through its user-defined protocol function. It also supports the establishment of an integrated monitoring environment at an economical cost and provides alarm message functions for rapid response with minimal operating resources, ensuring stable facility operation.



TOP-VIEW SERIES

Industrial SCADA



TOP-VIEW

FEATURES



Database Linkage

Self-Database (SQLite) and Link-to External Database Is Available



Data Analysis and Report

Excel-Type Report Making Without Handwriting



Cloud Linked Frame Work

Supporting Global Network Protocols as OPC UA Linkage Functions with MES/ERP Cloud Link by MQTT Function



Remote Monitor / Control

Monitoring and Control from Tablet PC or Mobile Devices by VNC

TOP-VIEW LICENSE

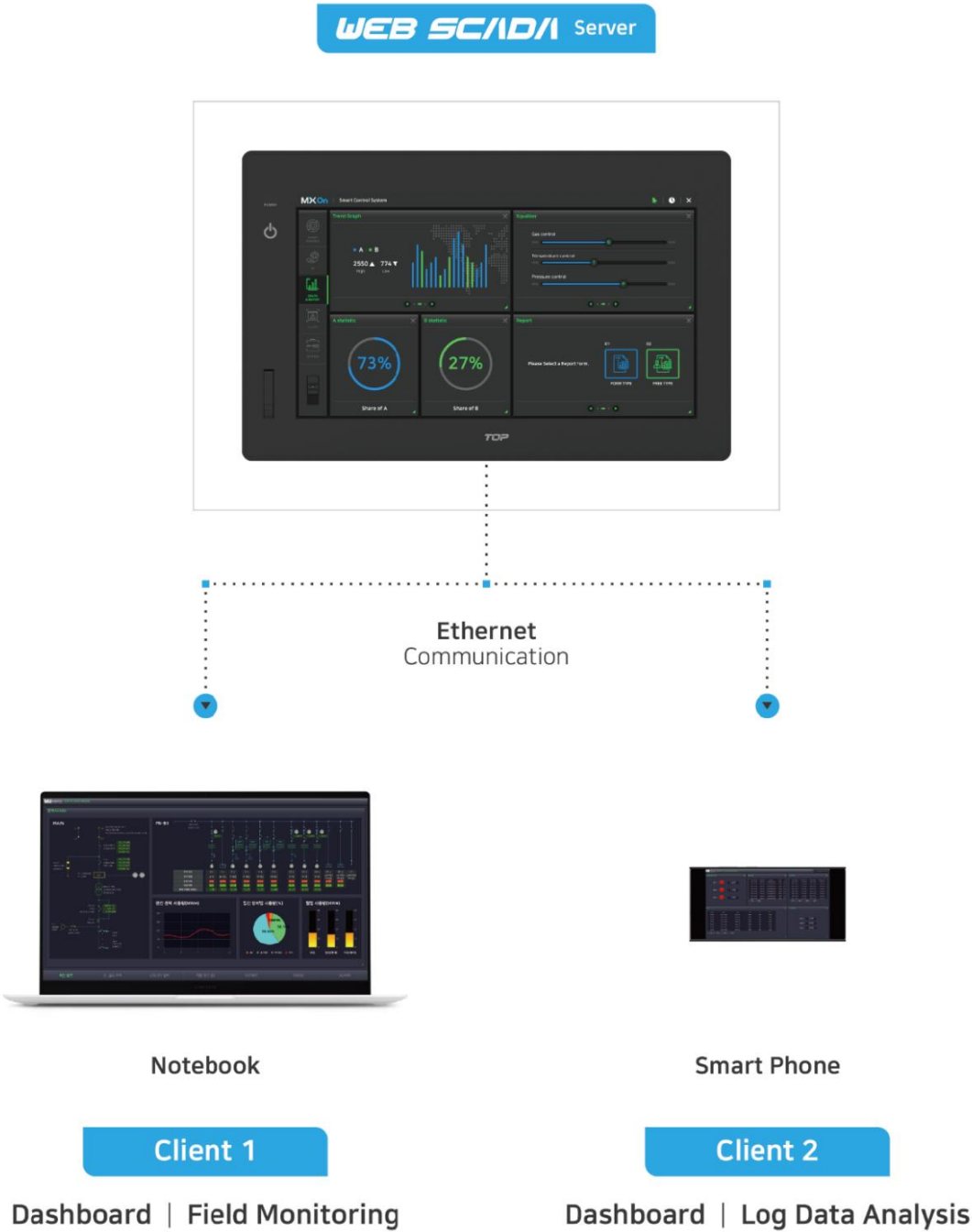
No	Model	Tag Count
1	TOP-VIEW100P	100 Tags
2	TOP-VIEW300P	300 Tags
3	TOP-VIEW600P	600 Tags
4	TOP-VIEW1300P	1,300 Tags
5	TOP-VIEW2000P	2,000 Tags
7	TOP-VIEWFULLP	Full Tags
8	TOP-VIEW SINGLE	Full Tags

* TOP-VIEW SINGLE: Limits for Database, Report Interface, and Running Screen (1 Page)

TOP-WVIEW SERIES

Industrial Web SCADA

Chrome | Edge | Safari



TOP-WVIEW

FEATURES



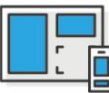
Individual Screen Monitoring

Unlike VNC, Each Logged-In User Can Independently Monitor Screens and Analyze Data Without Being Affected by the Server’s Active Display



Multiple User Concurrent Connection

According to the License (USB Key Lock)
Concurrent Connection of Users (2, 5, 10, Unlimited)



Responsive Design using Widgets

Dashboard Screen of Widgets Supported Flexible Re-Location According to the Screen Size of Device



HTML 5 and Web Standard

Maintain Compatibility Between Browsers
Optimize Access to Web Pages

TOP-WVIEW LICENSE

No	Model	Concurrent Connection Users
1	TOP-WVIEW□□□□P_2U	2
2	TOP-WVIEW□□□□P_5U	5
3	TOP-WVIEW□□□□P_10U	10
4	TOP-WVIEW□□□□P_FU	Unlimited

- TOP-WVIEW□□□□P_□U
- 1

2

1 □□□□ (Tag Count): 300P / 600P / 1300P / 2000P / FULLP (Unlimited)

2 □U (Concurrent User Count): 2U / 5U / 10U / FU (Unlimited)

TOP-PCVIEW SERIES

Industrial Panel PC

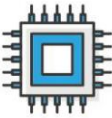
INTERFACE

- SERIAL 4 PORTS
- ETHERNET 2 CHANNEL
- USB HOST 5 PORTS
- VGA(DP)
- HDMI OUT
- AUDIO



TOP-PCVIEW

FEATURES



Intel® Core-i5 / i3 CPU

TOP-PCVIEW□□30□A: Intel® Core-i5 8365UE
TOP-PCVIEW□□10□A: Intel® Core-i3 4010U



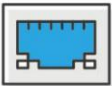
HMI / PC Compatibility

Mutual Compatibility Between TOP Project and SCADA Project
Same Panel Cut as TOP Series



Large Capacity SSD

2.5 Inch SSD 256GB Default Supply



Ethernet 2 Channels

2 Independent Ethernet Network Channels



Excellent Fanless Structure

Highly Efficient Heat Sink Installed
Fit to Quiet Location, No Need for Fan Maintenance



USB 5 Ports

USB 3.0 – 2 Ports, USB 2.0 – 3 Ports
USB 3.1 – 4 Ports, USB 2.0 – 1 Port for 1930HA Model



Aluminum Frame

Strong Durability and Refined Design of Aluminum Body



Front IP65 Compatible

Safe Use in Wet and Dusty Environment



5-wired Touch Panel

5-Wired Analog Touch Panel (19 Inch)



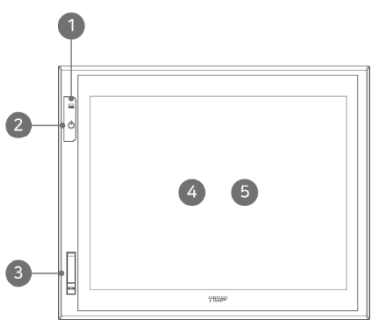
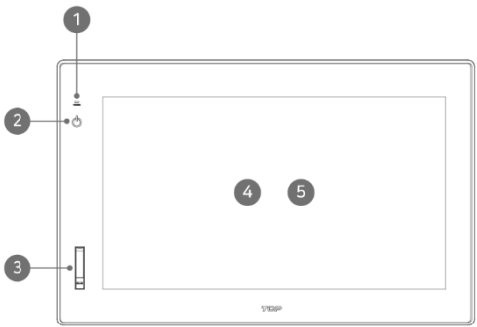
16M Full Color

Bright and Clean Full Color, Vector Image Library

TOP-PCVIEW SPECIFICATIONS

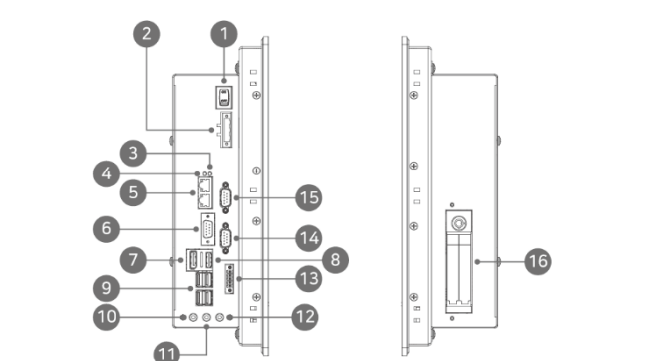
		1		2				
Functional		TOP-PCVIEW 1930HA	TOP-PCVIEW 1530XA	TOP-PCVIEW 1910HA	TOP-PCVIEW 1710SA	TOP-PCVIEW 1510XA	TOP-PCVIEW 1210XA	TOP-PCVIEW 1010XA
System	Processor Number	Intel® Core-i5 8365UE			Intel® Core-i3 4010U			
	CPU Speed	1.6GHz@4.1GHz(4C/8T)			1.7GHz(2C/4T)			
	Memory	DDR4 SO-DIMM 8GB			DDR3L SO-DIMM 8GB			
	Storage	2.5" SSD 256GB						
	OS	① Windows 11 IoT Enterprise LTSC 2024 ② WES7 KOR 32/64, ENG 32/64(Selectable), Windows 10 IoT 1809 LTSC 64bit KOR/ENG(Selectable)						
Display	System Utility	WinClon(Recovery system)			Acronis true image(Recovery system)			
	Display Type	18.5" TFT Color	15" TFT Color	18.5" TFT Cclor	17" TFT Color	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color	16M Colors						
	Display Area(mm)	409.8 x 230.4	304.1 x 228.1	409.8 x 230.4	337.92 x 270.34	304.1 x 228.1	245.76 x 184.32	210.4 x 157.8
	Resolution(dot)	1366 x 768	1024 x 768	1366 x 768	1280 x 1024	1024 x 768		
	Brightness Level	5 Levels(Selected Windows)			5 Levels(Selected BIOS)			
	Backlight Type	LED						
Touch	Backlight Life	50,000 hours						
	Touch Type	Analog resistive film						
	Touch Life	1 million times or more						
Interface	Serial COM1, COM2	① RS-232C, RS-422/485 Asynchronous(Selected BIOS), Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps, Connector: DSUB 9pin x 1, 3.5mm 5P x 1 ② RS-232C Asynchronous, Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps, Connector: DSUB 9pin x 2						
	Serial COM3, COM4	① RS-232C Asynchronous, Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps, Connector: DSUB 9pin x 2 ② RS-232C, RS-422/485 Asynchronous(Selected BIOS), Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps, Connector: DSUB 9pin x 1, 3.5mm 5P x 1						
	Ethernet	① IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.ab, 10BaseT/100BaseT/1000BaseT, Connector: RJ-45 x 2 ② IEEE802.3/IEEE802.3u/IEEE802.3ab, 10BaseT/100BaseT/1000BaseT, Connector: RJ-45 x 2						
	USB Host	① USB 2.0 Compatible, Output 5Vdc/0.5A, Connector: USB Type Micro B x 1 USB 3.1 Compatible, Output 5Vdc/0.9A, Connector: USB Type A x 4 ② USB 2.0 Compatible, Output 5Vdc/0.5A, Connector: USB Type A x 2, USB Type Micro B x 1 USB 3.0 Compatible, Output 5Vdc/0.9A, Connector: USB Type A x 2						
	Front Power Button	Electrostatic touch						
	VGA	② 1920 x 1200 at 60Hz						
	HDMI Out	① HDMI v1.4, HDMI output, Max. Resolution: 4096 x 2160 at 24Hz, Connector: HDMI x 1 ② HDMI v1.4a, HDMI Output, Max. Resolution: 4096 x 2304 at 24Hz, Connector: HDMI x 1						
	DP Out	① DP v1.2, HDMI output, Max. Resolution: 4096 x 2306@60Hz, Connector: DP x 1						
	Audio	High definition audio(HD), Line-in, Line-out, Mic-in						
	Power	Input Voltage	220Vac(100 ~ 240Vac) 50/60Hz					
Power Consumption		60W	50W					
Voltage Sag		100Vac, Within 10ms						
Insulation Resistance		500Vdc, 10MΩ						
Environment		Operation Temperature(℃)	0 ~ +60(No humidity)					
	Storage Temperature(℃)	-20 ~ +60						
	Operation Humidity(%RH)	0 ~ 95(No dew)						
	Atmosphere	No corrosive gas						
	Vibration Endurance	Amplitude: 10sF<25Hz(2G), X, Y, Z each direction(for 30 minutes)						
	Noise Immunity	1000Vp-p(Pulse width 1μs)						
	Static Electricity Discharge	Connective discharge from EN61000-4-2: ±4kV						
	Shock Endurance	10G X, Y, Z each direction(for 3 times)						
	Ground Connection	Class 3(100Ω under)						
	Protection Classification	Front side: IP65, Rear side: IP2X						
Structure	Withstand Voltage	500V(Line-Line)						
	Certification	KC, CE						
	Panel Cut(mm)	479 x 298	355 x 286	479 x 298	400 x 334	355 x 286	306 x 247	260 x 202
	External Dimension(mm)	497 x 316 x 94.8	370 x 301 x 87	497 x 316 x 86.6	414 x 348 x 86.6	370 x 301 x 87	320 x 261 x 93.5	276 x 219.5 x 87.9
	Weight(kg)	5.6	5.0	5.5	5.2	5.0	4.1	3.0
	Cooling System	Natural air circulation						
	Case Material	Metal						

INTERFACE



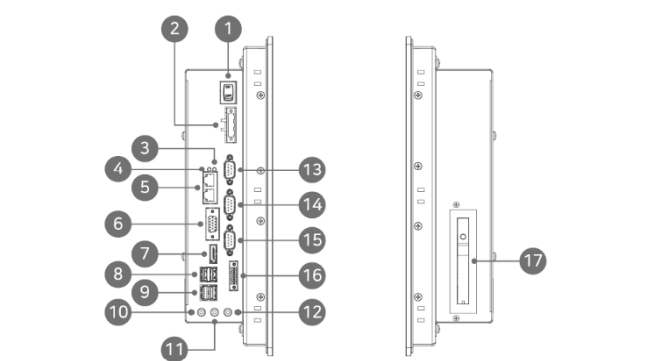
No	Name	Description
1	Power LED	System Power Status
2	Power Switch	System Power ON/OFF, Capacitive Switch (* ON/OFF by touching 3 seconds)
3	Front USB Port	Front USB HOST Port
4	TFT LCD	TFT 16M Color LCD
5	Touch Panel	Analog Resistance Touch

TOP-PCVIEW□□30□A



No	Name	TOP-PCVIEW□□30□A
1	Power Switch	Rocker Switch-2P
2	Power Terminal	Terminal Block-3P
3	Disk LED	LED
4	전원 LED	LED
5	LAN Port #1, #2	RJ-45 2Ch
6	COM1	DSUB-9(Male)
7	DP	DP Port
8	HDMI	HDMI Port
9	USB	USB 4Ch
10	SPK	Audio Jack(3.5Pi)
11	LINE-IN	Audio Jack(3.5Pi)
12	MIC	Audio Jack(3.5Pi)
13	COM2	Terminal Block-5P
14	COM3	DSUB-9(Male)
15	COM4	DSUB-9(Male)
16	HDD Rack	2.5" bay Slot

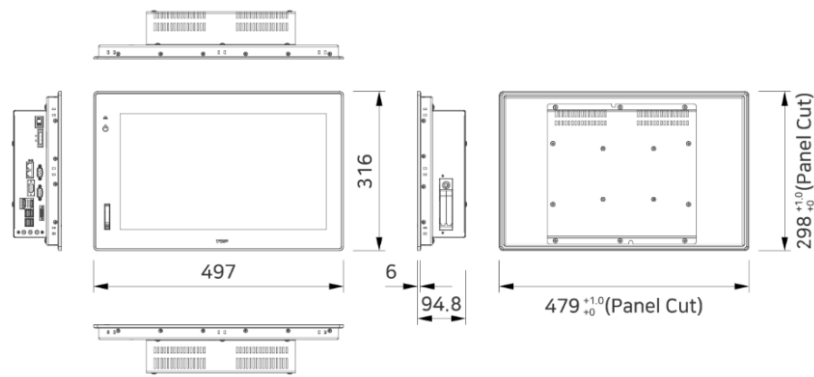
TOP-PCVIEW□□10□A



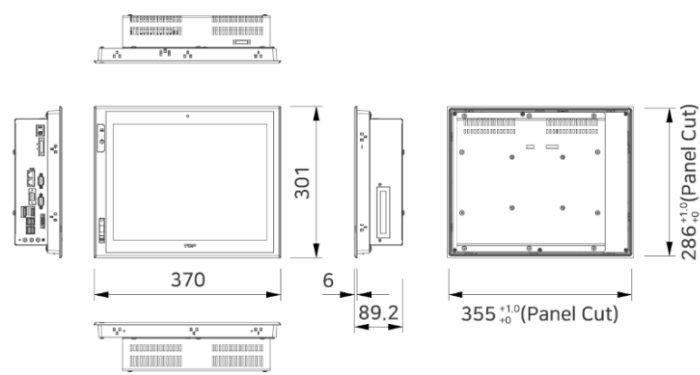
No	Name	TOP-PCVIEW□□10□A
1	Power Switch	Rocker Switch-2P
2	Power Terminal	Terminal Block-3P
3	Disk LED	LED
4	Power LED	LED
5	LAN Port #1, #2	RJ-45 2Ch
6	VGA	DSUB-15P
7	HDMI	HDMI Port
8	USB #1	USB 2Ch
9	USB #2	USB 2Ch
10	SPK	Audio Jack(3.5Pi)
11	LINE-IN	Audio Jack(3.5Pi)
12	MIC	Audio Jack(3.5Pi)
13	COM1	DSUB-9(Male)
14	COM2	DSUB-9(Male)
15	COM3	DSUB-9(Male)
16	COM4	Terminal Block-5P
17	HDD Rack	2.5" bay Slot

DRAWING

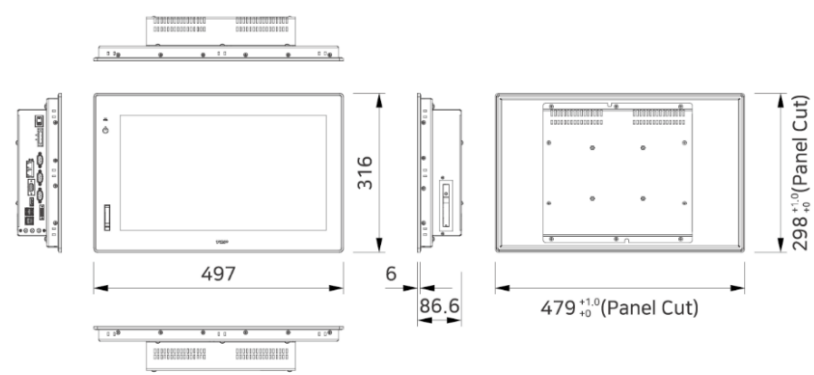
TOP-PCVIEW1930HA



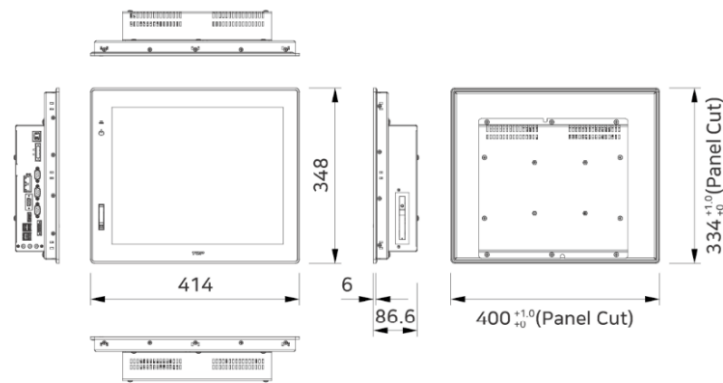
TOP-PCVIEW1530XA



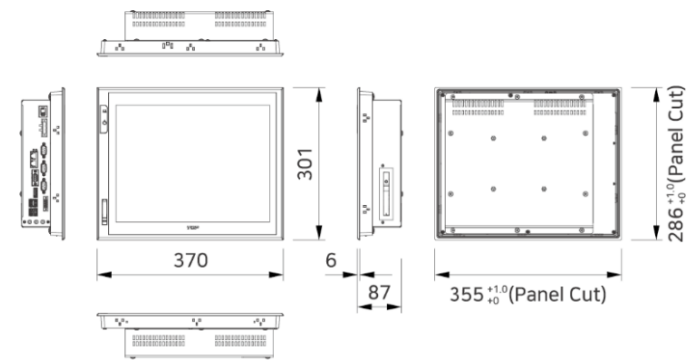
TOP-PCVIEW1910HA



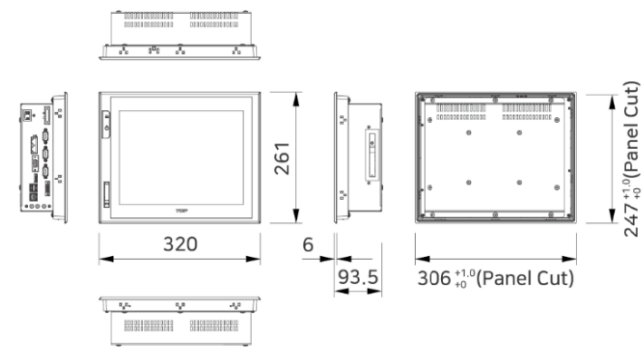
TOP-PCVIEW1710SA



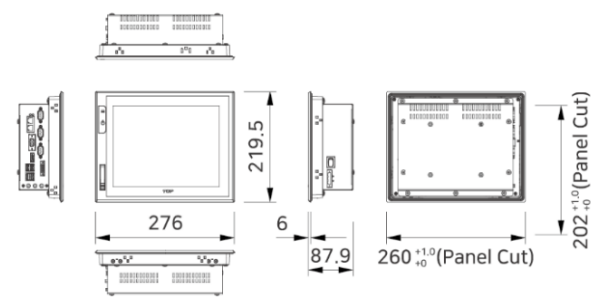
TOP-PCVIEW1510XA



TOP-PCVIEW1210XA



TOP-PCVIEW1010XA



MPC SERIES

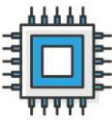
Industrial Box PC

INTERFACE *Varies By Model.

- SERIAL 4 PORTS
- ETHERNET 2 CHANNEL
- USB HOST 4 PORTS
- DISPLAY PORT OUT
- HDMI OUT
- AUDIO OUT



FEATURES



Fanless Intel 8th Core-i5 CPU

High-Performance Implementation with a Fanless 4-Core / 8-Thread Design



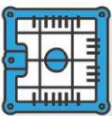
Optimized Heat Dissipation Design

Efficiently Designed for CPU Cooling to Ensure Stable Performance Without Degradation



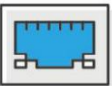
Supports Simultaneous 4K HDMI and DP Display Output

Convenient Connection to Various Monitors via HDMI and DP



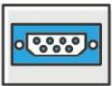
Supports Mounting Holes for MDP Monitors

Easily Attach MDP Monitors Using the Mounting Holes



Provides 2 Ethernet Channels

Supports Heterogeneous Networks with Different IPs



Provides 4 Serial Ports

Supports RS-232C and RS-422/485 Communication



Provides 4 USB HOST Ports

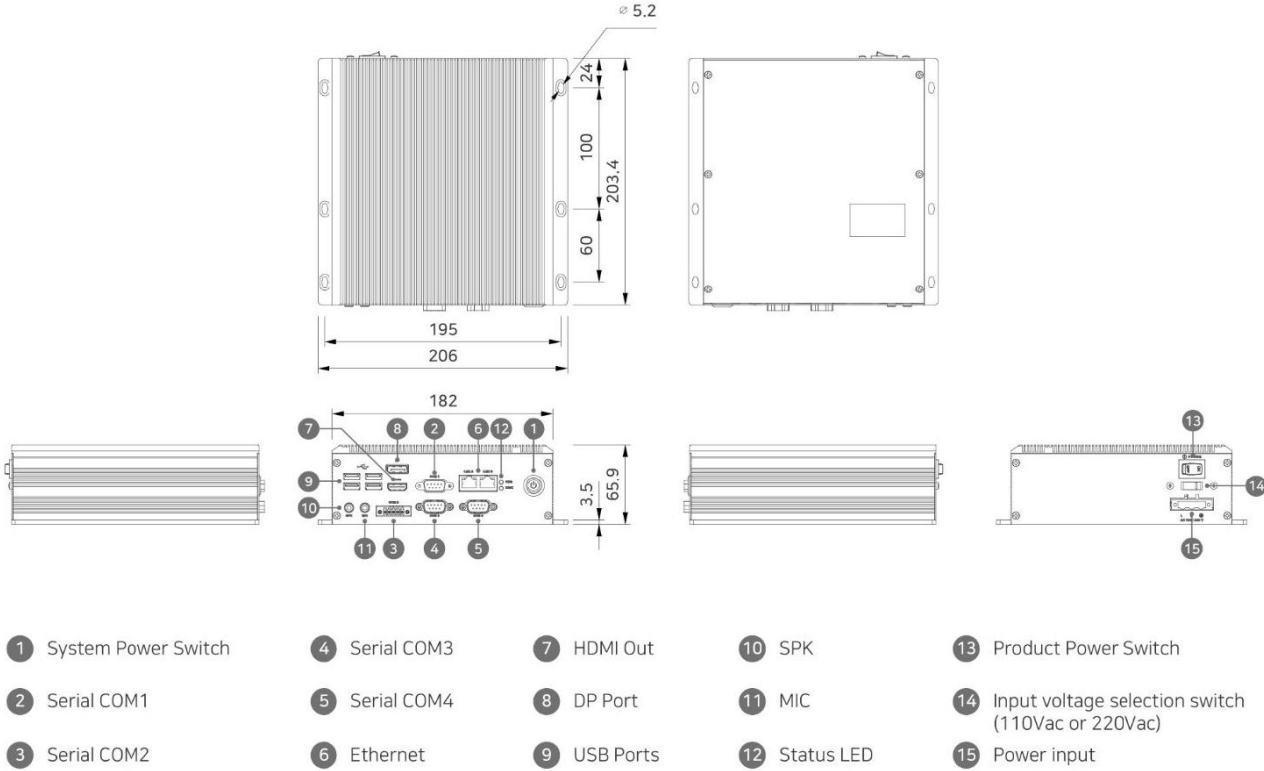
Ports Available for Connecting Mouse, Keyboard, USB Memory, Barcode Scanner, etc.

MPC SPECIFICATIONS

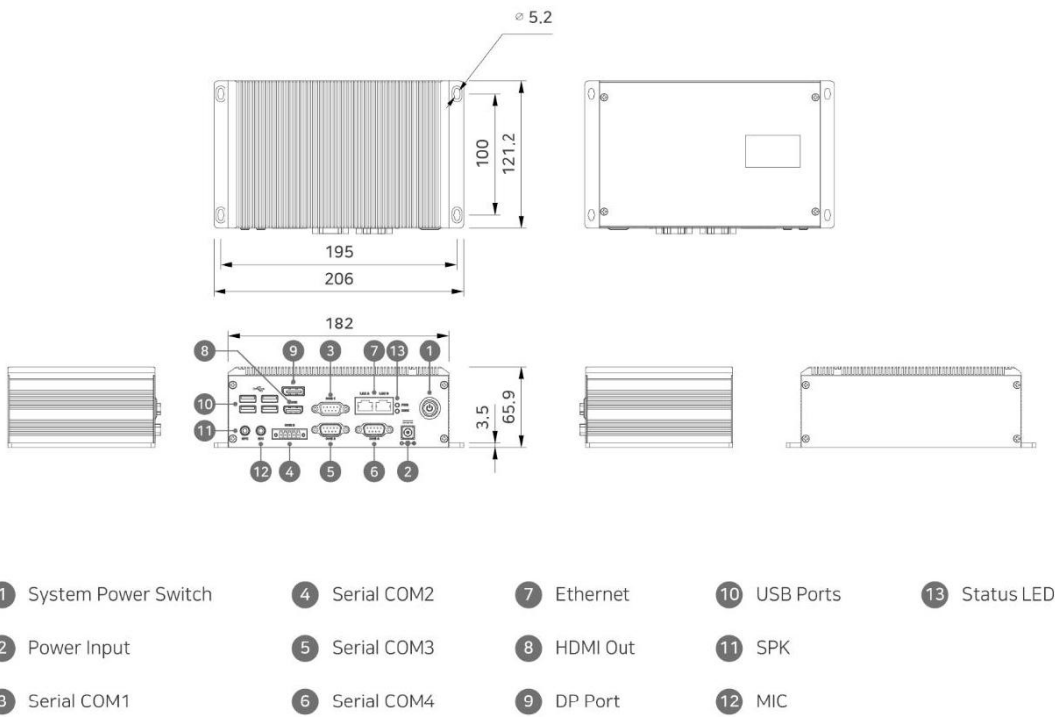
	Functional	MPC-B1500A	MPC-B1500D
Main System	CPU Processor and Speed	Intel® 8th Core-i5 8365UE: 1.6GHz@4.1GHz(4C/8T)	
	Memory	DDR4 S0-DIMM 8GB	
	Storage	2.5" SSD 256GB	
	OS and Recovery Software	Windows 10 IoT LTSC 1809, Winclon 6.0 premium	
Interface	Serial COM1	RS-232C, RS-422/485 Asynchronous(Selected BIOS) Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: DSUB 9pin	
	Serial COM2	RS-232C, RS-422/485 Asynchronous(Selected BIOS) Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: 3.5mm 5P	
	Serial COM3	RS-232C Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: DSUB 9pin	
	Serial COM4	RS-232C Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: DSUB 9pin	
etc.	Ethernet	10BaseT/100BaseT/1000BaseT Connector: RJ-45 x 2	
	USB Host	USB 3.1 Compatible, Output 5Vdc/0.9A Connector: USB Type A x 4	
	Display Port(DP) OUT	Max. 4096 x 2360@60Hz	
	HDMI OUT	Max. 4096 x 2160@30/24Hz	
	Audio	High definition audio(HD), 3.5mm, SPK-out, Mic-in	
	Power Button	LED Push button	
	Status indicator LED	Power and disk status	
	Input Voltage	Embedded SMPS type, 110Vac/220Vac, 7.62mm 3P TB	Adaptor type, Output 12Vdc ~ 24Vdc supports, DC Jack
	Power Consumption	Max. 100W(*CPU Turbo boost full load) Typ. 40W	
	Voltage Sag	220Vac, Within 10ms	12Vdc, Within 10ms
Environment	Insulation Resistance	500V DC, 10MΩ	500V DC, 10MΩ
	Operation Temperature(℃)	0 ~ +60	
	Storage Temperature(℃)	-40 ~ +60	
	Operation Humidity(%RH)	0 ~ 90(No dew)	
	Atmosphere	No corrosive gas	
	Vibration Endurance	Amplitude: 10≤F<25Hz(2G) X,Y,Z each direction(for 30 minutes)	
	Noise Immunity	1000Vp-p(Pulse width 1μs)	
	Electrostatic Discharge	Connective discharge from EN61000-4-2: ±4kV	
	Shock Endurance	10G X,Y,Z each direction(for 3 times)	
	Ground Connection	Class 3(100Ω or under)	-
Structure	Protection Classification	IP2X	
	Certification	KC, CE	
	External Dimension(mm)	206 x 66 x 202	206 x 66 x 121
	Weight(kg)	3	2
	Cooling System	Natural air circulation	
	Case Material	Metal	

DRAWING

MPC-B1500A



MPC-B1500D

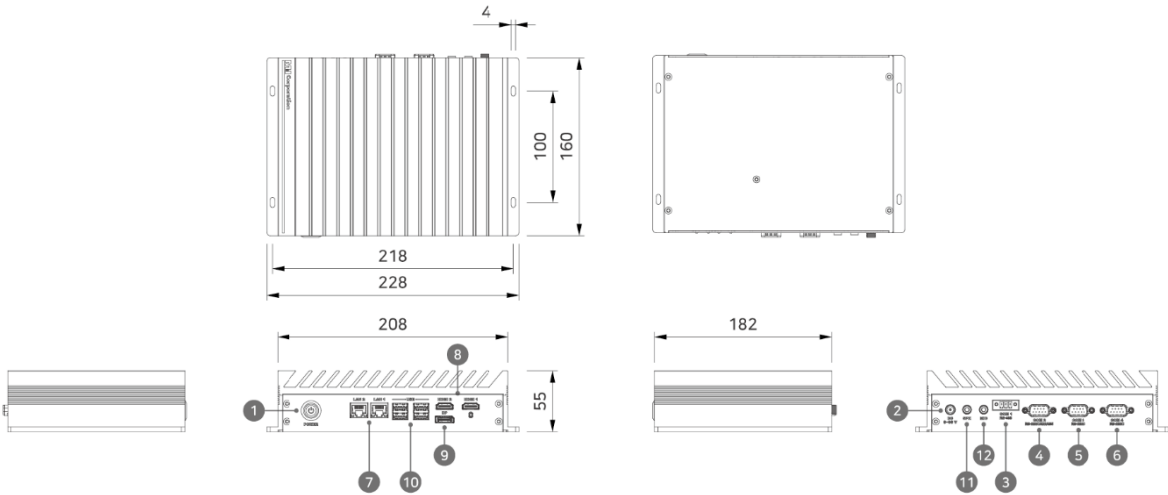


MPC SPECIFICATIONS

Functional		MPC-B1510D	MPC-B1310D	MPC-B1010D
Main System	CPU Processor and Speed (Base@Max), (Core/Tread)	Intel® Core™ i5-1245UE Processor Base: Pcore 1.6, Ecore 1.2 Max: Pcore 4.40, Ecore 3.30	Intel® Core™ i3-1215UE Processor Base: Pcore 1.2, Ecore 0.9 Max: Pcore 4.40, Ecore 3.30	intel® Processor N97, 6M Cache, up to 3.60 GHz Base 2.0GHz, Max 3.6GHz
	Memory	DDR5 SO-DIMM 16GB		
	Storage	M.2 nvme 256G		M.2 Sata 256G
	OS and Recovery Software	Windows 10 IoT Enterprise LTSC 2021, Windows 11 IoT Enterprise LTSC 2024		
Interface	Serial COM1, COM2	#COM1 RS-422/485 Asynchronous only #COM2 RS-232C,RS-422/485 Asynchronous(Selected BIOS) Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: COM1 3.5mm 3P x 1, COM2 DSUB 9pin x 1		
	Serial COM3, COM4	RS-232C Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: DSUB 9pin x 2		
	Ethernet	IEEE 802.3i/802.3u/802.3ab/802.3bz, 10BASE-T/100BASE-TX/1000BASE-T/2.5GBASE-T Connector: RJ-45 x 2		IEEE 802.3i/802.3u/802.3ab, 10BASE-T/100BASE-TX/1000BASE-T Connector: RJ-45 x 2
	USB Host	USB 3.2 gen 2(10G) x 4		
Interface	Front Power Button	LED Push Button		
	HDMI Out	HDMI 2.0, up to 4096 x 2160 @ 60 Hz x 2		HDMI 2.0, up to 4096 x 2160 @ 60 Hz x 1
	DP Out	DP1.2, up to 4096 x 2304 @ 60 Hz x 1		
	Audio	High Definition Audio(HD), Line-out, Mic-in		
Power	Input Voltage	DC Jack Adaptor(9Vdc ~ 36Vdc)		
	Power Consumption	50W		
	Voltage Sag	19Vdc, Within 10ms		
	Insulation Resistance	500Vdc, 10MΩ		
Environment	Operation Temperature(°C)	0 ~ +60(No humidity)		
	Storage Temperature(°C)	-40 ~ +60		
	Operation Humidity(%RH)	0 ~ 95(No dew)		
	Atmosphere	No corrosive gas		
	Vibration Endurance	Amplitude: 10sF<25Hz(2G), X,Y,Z each direction(for 30 minutes)		
	Noise Immunity	1000Vp-p(Pulse width 1μs)		
	Electrostatic Discharge	Connective discharge from EN61000-4-2: ±4kV		
	Shock Endurance	10GX,Y,Z each direction(for 3 times)		
	Ground Connection	Class 3(100Ω under)		
	Protection Classification	IP2X		
	Certification	KC, CE		
	Panel Cut(mm)	-	-	-
Structure	External Dimension(mm)	228 x 55 x 160		
	Weight(kg)	-	-	-
	Cooling System	Natural air circulation		
	Case Material	Metal		

DRAWING

MPC-B1510D
MPC-B1310D



- 1

System Power Switch
- 2

Power Input
- 3

Serial COM1
- 4

Serial COM2
- 5

Serial COM3
- 6

Serial COM4
- 7

Ethernet 1, 2
- 8

HDMI 1, 2 Out
- 9

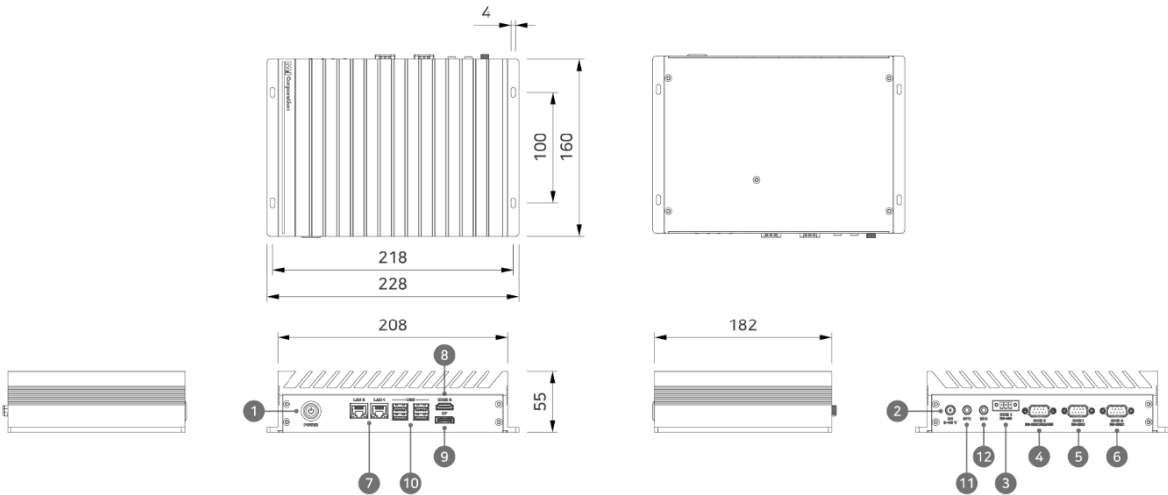
DP Port
- 10

USB 3.2 4 Ports
- 11

SPK
- 12

MIC

MPC-B1010D



- 1

System Power Switch
- 2

Power Input
- 3

Serial COM1
- 4

Serial COM2
- 5

Serial COM3
- 6

Serial COM4
- 7

Ethernet 1, 2
- 8

HDMI Out
- 9

DP Port
- 10

USB 3.2 4 Ports
- 11

SPK
- 12

MIC

MDP SERIES

Industrial Touch Monitor

INTERFACE *Varies By Model.

- HDMI ■ USB ■ DP



FEATURES



2 Channels / 1 Channel Model Selective

Display Change by Switching Button



Explosion-Proof Structure

The First Monitor with Explosion-Proof Structure



Capacitive Touch

Clear Display with Capacitive Touch
IK7-Grade Tempered Glass



FHD LCD

16:9, 19 Inch, FHD LCD (1920 x 1080)



Front USB Port

Connection Ports to Connect Mouse, Keyboard,
USB Memory, Barcode Reader



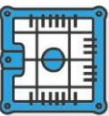
Aluminum Frame

Strong Durability and Refined Design of Aluminum
Body



HDMI / USB / DP

2 Channels (HDMI – 2 Ports, USB – 5 Ports)
1 Channel (HDMI – 1 Port, DP – 1 Port, USB – 2 Ports)



VESA Hall on Rear Side

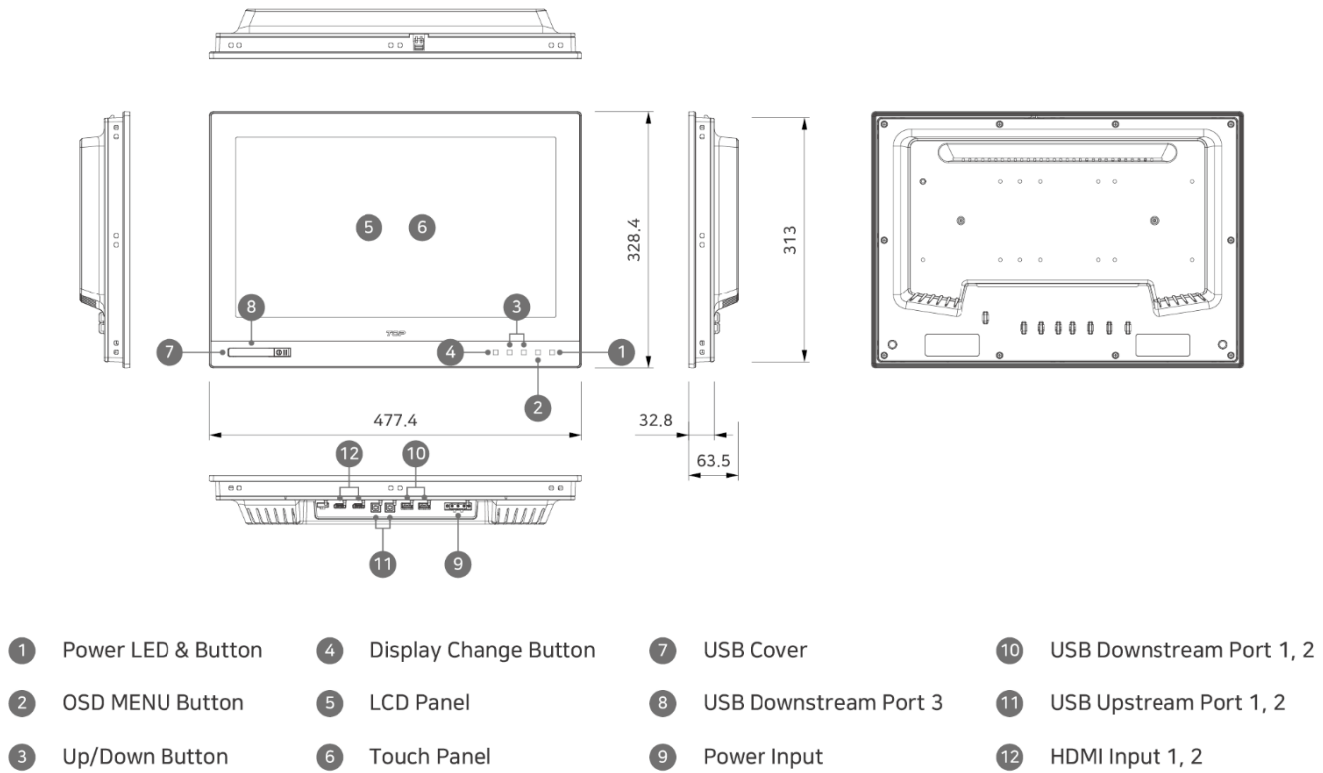
Convenient Attachment with M2I's Box HMI and Box
PC

MDP SPECIFICATIONS

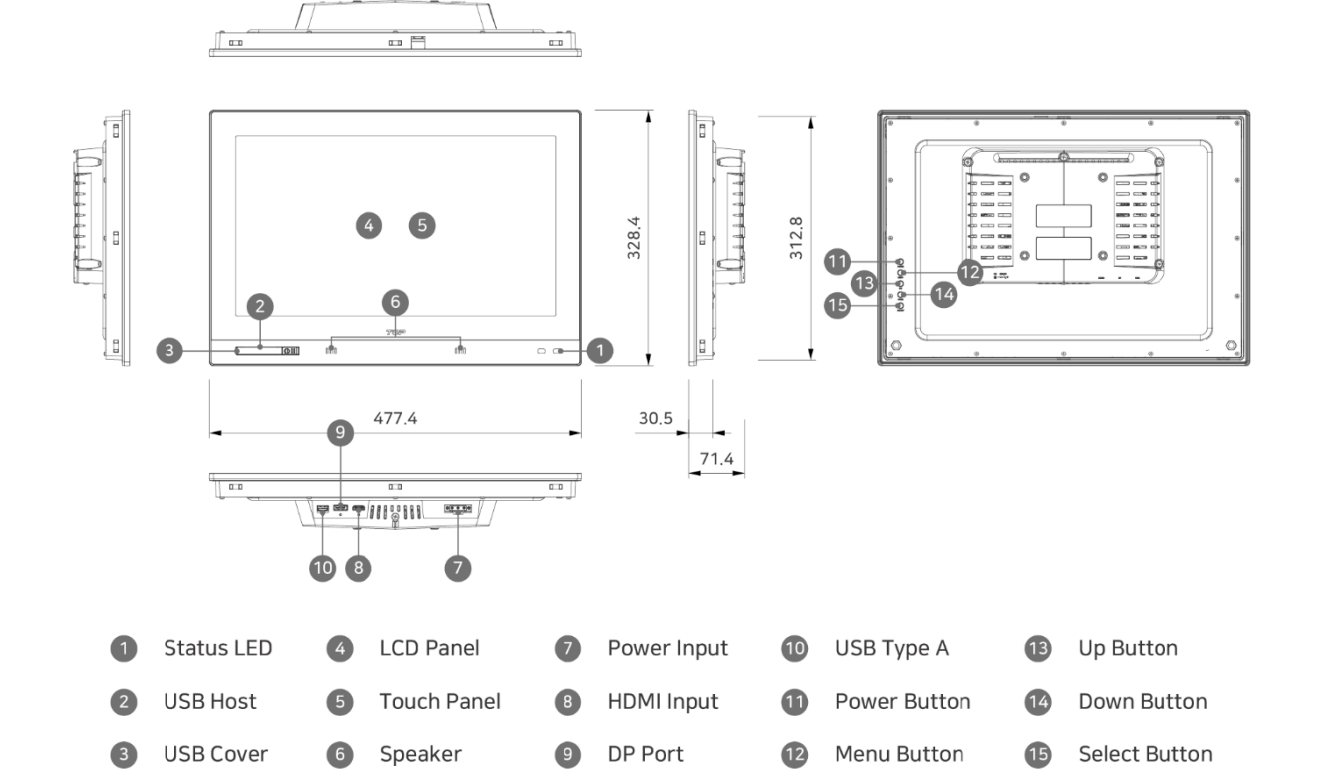
Functional		MDP-DC1900WD	MDP-SC1900WD
Display	Display Type	18.5" TFT Color	
	Color	16M Colors	
	Aspect Ratio	16:9	
	Display Area(mm)	409.8 x 230.4	408.96 x 230.04
	Recommend Resolution	1920 x 1080	
	Viewing Angle(H/V)	89/89/89/89	85/85/85/85
	Contrast Ratio	1000 : 1	1200 : 1
	Response Time	20ms	30ms
	Brightness	350Cd/m ²	
	Backlight Type	LED	
	Backlight Life	50,000 hours	
Touch	Touch Type	Capacitive Touch	
Interface	HDMI Input	2 Ports	1 Port
	DP Input	-	1 Port
	USB Up Stream	2 Ports	1 Port
	USB Down Stream	2 Ports	-
	USB Host	1 Port	
OSD Controls	Capacitive Touch Button	KVM/Up/Down/Menu, Select/Power	-
	Button(Tact Switch)	-	Up/Down/Menu, Select/Power
Power	Input Voltage	24Vdc(20~28Vdc)	
	Power Consumption	40W	
	Voltage Sag	24Vdc, Within 10ms	
	Insulation Resistance	500Vdc, 10MΩ	
Environment	Operation Temperature(℃)	-10 ~ +50	
	Storage Temperature(℃)	-20 ~ +60	
	Operation Humidity(%RH)	0 ~ 90(No dew)	
	Atmosphere	No corrosive gas	
	Vibration Endurance	Amplitude: 10sF < 25Hz(2G) X,Y,Z each direction(for 30 minutes)	
	Noise Immunity	1000Vp-p(Pulse width 1μs)	
	Electrostatic Discharge	Connective discharge from EN61000-4-2: ±4kV	
	Shock Endurance	10GX,Y,Z each direction(for 3 times)	
	Ground Connection	Class 3(100Ω under)	
	Protection Classification	IP65(Front)	
Structure	Certification	CE, KC, UL/cUL	
	External Dimension(mm)	477.4 x 328.4 x 63.5	477.4 x 328.4 x 71.4
	Panel Cut(mm)	463 x 314	
	Weight(kg)	5.0	4.7
	VESA Wall Mount Holes(mm)	100 x 100	
	Cooling System	Natural air circulation	
	Case Material	Aluminum + Plastic	

DRAWING

MDP-DC1900WD



MDP-SC1900WD

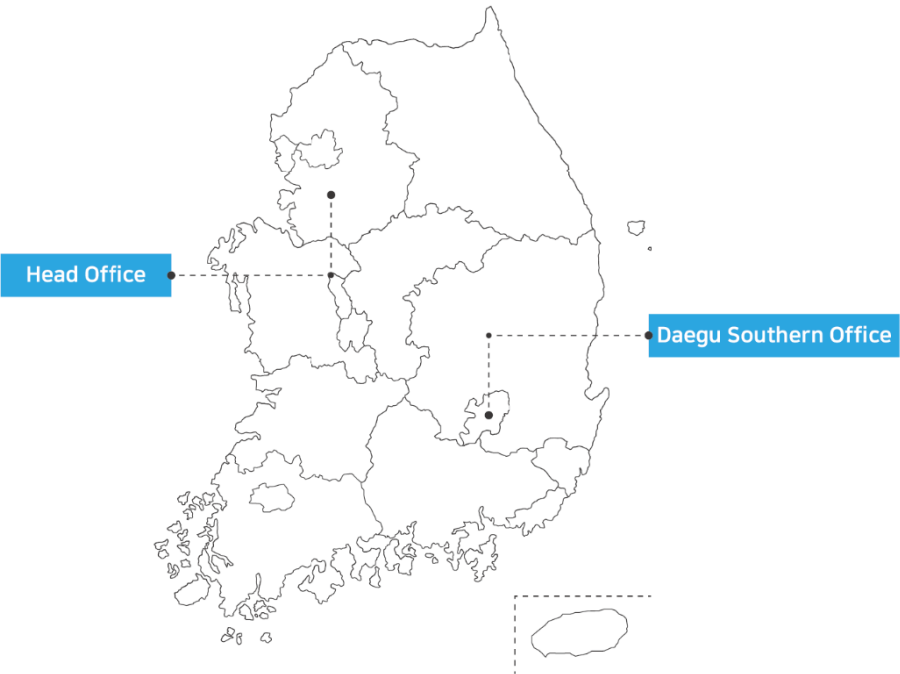


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