

THE BEGINNING OF CHANGE IS NOW



EMBEDDED HMI



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V 2.7E (240109)

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14 Introduction of Overseas/ Domestic Dealerships Greetings HMI Specialized Company

M2I Corporation was established in April 1999 for manufacturing industrial HMI, and get strong visions of global HMI specialized company in industrial monitoring/control ling territory

We do the roll to sense all information of industrial field and signals of devices, and connect human and machine. Also we support not only manual operation, but also smart system(Automatic monitor/Control).

Continuous R&D and technical service development were focused all the time as dramatic changes of industrial structure. And M2I tries constantly for brand identity and quality development by products that customer needs and make wide range of product line-up

M2l Corporation cooperates plenteous customers with knowledge and know-how in industrial automation field. Aiming to be the global leader of smart factory and industrial IoT, M2l Corporation will do the best to improve the reliability and productivity by revolutionary product development and service.

M₂I Corporation

Applied Field

Optimized Product for Smart Factory, Represented as Industry 4.0

M2I's Smart HMI is surpassing traditional HMI products for Factory Automation, and having connectivity for various devices, flexible functionality, stability and security.

With various versatile, it can be used in Smart Factory and other various fields, and it is adopted not only in high-technology industry like Semiconductor, Display, but also in Growing/Normal industry like Automobile, Mobile Device, Secondary Cell, and Pharmacy/Bio.



Display/Mobile Phone

Logistics



Chemical/Steel

Pharmacy, Plastic, Cosmetics, Chemical, Steel manufacture



 \Box

Food/Pharmacy

Ramen, Soup, Snack, Ice cream, Milk, Rice, Packaging, Storage



Textile/Packaging

Dyeing, Print, Dry cleaning, Knitting, Rotary machine



Semiconductor/Electronics

Gas cabinet, VMB, Chiller, Loader/Unloader, Scrubber Lead frame, Laser marker, Chamber



Automobile/Shipbuilding

Painting, Welding, Pressing, Assmebly



Secondary Cell/Solar

Oil refining, Battery, Power generation, Water resources



Automated/Logistics

OHCV, OHT, Lifter, OHS, AMR, AGV, Stacker Crane

HMI Specialized Company

M2I Corporation will do the best to improve the reliability and productivity by revolutionary product development and service.



2016 - Present Customized Smart Factory Solution

Relocation of New M2I Building
Smart Factory Solution Business Start and
Obtaining New Projects' Orders
Launching TOP-PCVIEW Series, Designated in
Semiconductor and Automobile Industry
Launching TOPRW and TOPRE Series
The Highest Sales Record as 60,000 Units
Launching TOP-VIEW(SCADA S/W)
and TOP-PCVIEW(Panel PC)



Launching TOPRX and TOPRH Wired/Wireless Series
ATEX/KCS/NEPSI Certificates for XTOP Series Acquired
Launching TOPR Series
Launching XTOP Wide Series



2001 - 2010 The Automation in Anywhere

Launching HTOP Handy Type Wired/Wireless Series

Opening Regional Office in Daegu

Launching XTOP Series

Selected to INNO-BIZ Company

UL/CE/FCC Certificates Acquired



Venture Company Certificates Acquired Launching TOP Series(The First Industrial HMI in Korea) M2I Corporation Established



INDUSTRIAL HMI/SCADA SOLUTION TOP

TOP SERIES INTRODUCTION_6P

TOP Series Introduction







Product Line-Up Satisfying Customers' Various Needs







INDUSTRIAL HMI/SCADA SOLUTION TOP SOFTWARE INTRODUCTION_8P

TOP Design Studio Software

The software which supports TOPR, TOPRX, TOPRW, TOPRE, TOPRH, TOPRP, TOP-PCVIEW(SCADA), you can download in M2I website(www.m2i.co.kr/eng) for free.

Combination of PC BASED HMI and EMBEDDED HMI

Mutual convert between PC BASED HMI(SCADA, TOP-PCVIEW series) and EMBEDDED HMI(TOPR/TOPRX/TOPRW/ TOPRE/TOPRH series) is possible. So program is efficiently used. This make the person who is familiar with EMBEDDED HMI program(TOP Design Studio) easy to use PC BASED HMI(SCADA) program without any training

To change the project, select [Project] - [Property] - [Change HMI] function in TOP Design Studio.



01 LANGUAGE **LANGUAGE**

This software supports korean/english/chinese(Sim plified)/japanese. You can select the language in [VIEW-Language] menu in software.

DOCKING WINDOW

PROJECT PROPERTY WINDOW

Helping the project/screen/resource to be easier and systemized management.

03-3

DOCKING WINDOW

PROPERTY WINDOW

Showing the property of screen/object and editing them is possible. Same kind of object can be edited by group in same time.

02 DYNAMIC RIBBON MENU

DYNAMIC RIBBON MENU

Menu-Toolbar united ribbon UI, easy to use by big

DOCKING WINDOW

OBJECT LIST WINDOW

The object registered on screen is shown as table format.

DOCKING WINDOW

USER LIBRARY WINDOW

Supporting the screen/parts designed by objects.

Easier and More Diverse

01. Automatic Resizing Function for Model Change

If you change the TOP model which has different resolution, all registered objects in screens will automatically resize by new model's resolution.



02. Vector Image Library

TOP supports vector image library (SVG format) with 16M full color. Vector image can display clear view regardless of size change.



03. User Library Window Sample

We supply the sample of screens and objects which customers can use for their own project.



04. Off-Line/On-Line Simulation

Off-line simulation is a test operation in PC without the control unit, and on-line simulation is a test operation in PC connected to control unit like PLC. This on-line simulation has 2 hours trial mode. The operation of TOP and PC simulation is same because they are same program.



INDUSTRIAL HMI/SCADA SOLUTION TOP SOFTWARE INTRODUCTION_10P

TOP Design Studio Software

05. Flexible and Easy Programming by [Effect/Action] Function of Object

[Effect/Action] function is supported regardless any shape or type of object. If a set [Condition] meets, [Effect] or [Action] already set operates. Animated effect and other many operation can be set in object.



Condition(AND/OR)

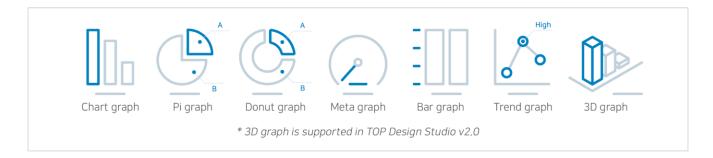
Event(Touch) + Bit data + Word data + String data + Time/Schedule + Interval

Hide + Disable + Reverse + Blink + Shape change + Image change + Width/Height change + Move + Rotate

Bit data + Word data + String data + Script + Key + Special function

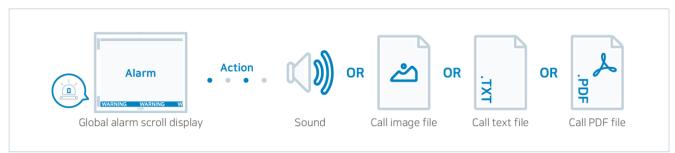
06. Faster and More Accurate Analysis by Variable Graph Format

Beyond one or two, 3 dimensional graph shows the data quickly.



07. Global Alarm Scroll/Action for Occurred Alarm

Alarm list can be shown as table format or scroll format. [Global alarm scroll] function displays the contents of occurred Alarm by scroll format moving by 1 letter. An operator can check the alarms in any screens. The action for this occurred alarm, supports showing image/text/PDF file and sound effect. Also, operating set action or saving a certain address data maximum 10ea.



08. Schedule Function Address Data

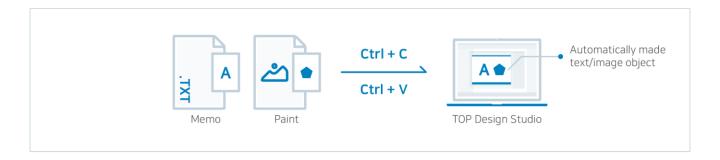
Each schedule(Year/Month/Day/Hour/Minute/Second) can be set as PLC's address, so data can be edited during operation. [* Project menu > Schedule > Schedule table dialog]



Easier and More Diverse

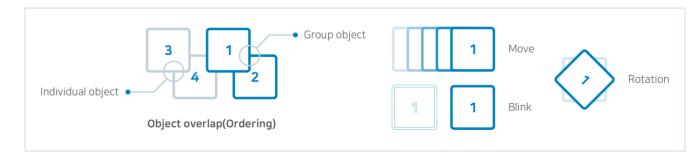
09. Text/Image Automatic Copy

If text data outside of TDS is copied and pasted in TDS, a [Text object] is created automatically. If image data outside of TDS is copied [Image object] is created automatically.



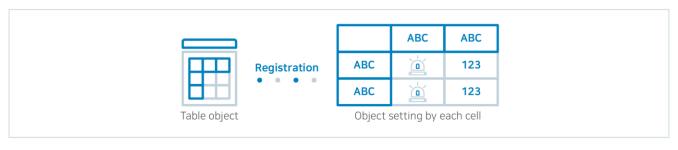
10. Multi-Layer System of Object

Object can be layered and set by top/bottom order. Putting layered object on other object and set animated effect is available.



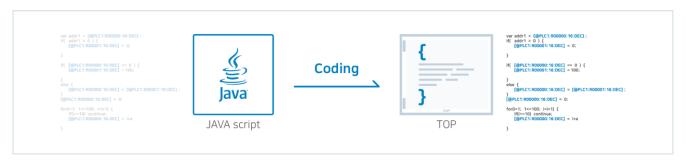
11. Table Object

Easy registration without any drawing process of table. Text/Image/Numeric/String/Clock/Lamp objects can be set in table property dialog.



12. Easy and Powerful Programming by JAVA script

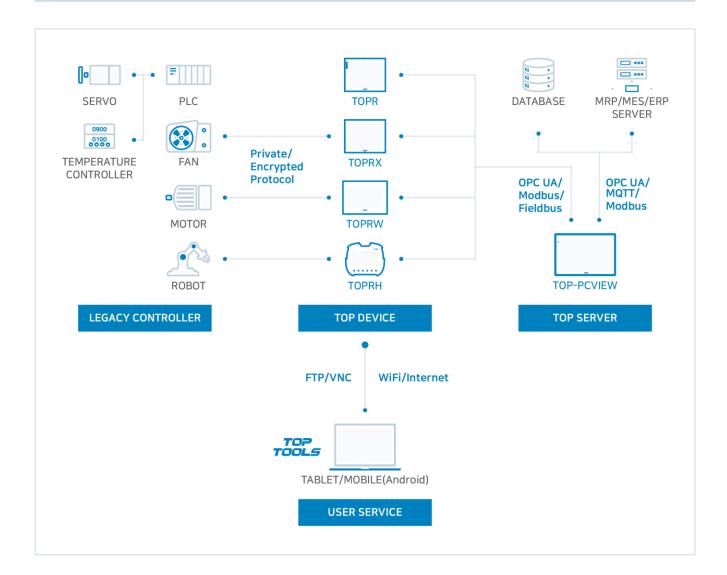
As the powerful functions of JAVA script, the most common used one, not only a simple command but also programming language can be set easily with samples.



INDUSTRIAL HMI/SCADA SOLUTION TOP

UTILIZATION OF TOP_12P

Use of Smart TOP in Industrial Field



01. VNC(Virtual Network Computing)/FTP(File Transfer Protocol)

The screen of TOP in factory cab be monitored and controlled by remote PC, tablet, mobile device, and other TOP by VNC. Also file transferring is possible by FTP.



02. OPC UA(Open Platform Communications Unified Architecture) Protocol Supports

OPC UA is a future-oriented and expandable architecture. This makes PCVIEW(PC BASED HMI) gather and manage data stable.

03. E-mail, SMS Sending in Factory Fireld

E-mail and SMS set in program can be sent by field's condition. Manager or customer can receive the situation immediately by E-mail and SMS.

More Convenient and Safer

04. Multi Screen

A single screen can show several other screens with 'Screen call object'. Monitoring a number of screens is possible, and screen change will be done when this small screen call object is touched.



05. Using Big Screen with HDMI Out

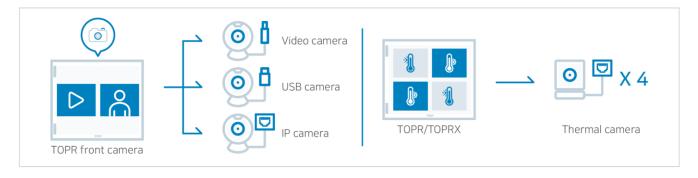
Set a screen as multi screen, and show this to big monitor or TV by HDMI. HDMI screen can show individual screen as HDMI dual mode.



06. Thermal/IP/Video/Integrated Camera

TOPR premium model has an integrated camera in front side, and a video port which can connect a video camera. Thermal and IP camera can be connected to ethernet port, and USB camera is also connectable.

Operating with video and recording is possible. Also, making safer industrial environment is possible using this function in anti-fire or security area.



07. Immediate Graph Display of Data in SD Card

Sampling a data in SD card and showing it in record graph can make the analysis faster.



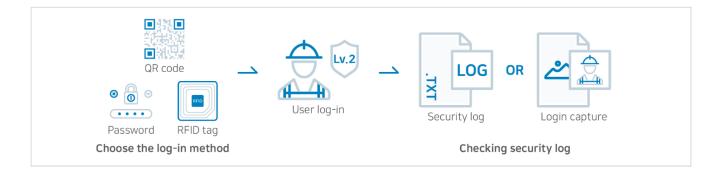
INDUSTRIAL HMI/SCADA SOLUTION TOP

UTILIZATION OF TOP_14P

Use of Smart TOP in Industrial Field

08. Close Security Management and Convenient Log-in

TOP can set 16 levels of password to be safe security management. Log-in methods are input the password directly by keyboard, or using QR code, RFID tag. External reading device is needed for each method of log-in. Additionally, security log function is able to record the log-in and log-out, or save the video data of log-in spot by capture function.



09. FDA 21CFR Part 11

Operator authorization, tracking the log of monitoring/control, managing DB and PDF file.



10. HSMS SECS GEM Protocol for Semiconductor Industry

 $Communication \ for \ Variable/Alarm/Report/Event/Item/Message/Host \ command \ and \ remote \ command/limit \ monitoring$



11. Memo Write/Read for Operator

Memo function with text/drawing mode on the spot is possible. Saved memo can be checked by a selected operator.



More Convenient and Safer

12. Log/Recipe Data Monitoring, Always On The Spot

There is Logviewer/Recipe menu in Top side menu, showed when you drag from upper outside to inside. [Logviewer' menu is a table format viewer for log file even in SD card. [Recipe editor] menu is also table format for recipe data in TOP's memory and editable of item names or data. So, additional object on the screen is not needed to check log/recipe data on the spot anytime.



13. File Checking On The Spot, with Image/Text/PDF viewer

Screen captured images, text files like system log, and manuals in PDF format can be monitored immediately on TOP without transfer to Laptop or PC.



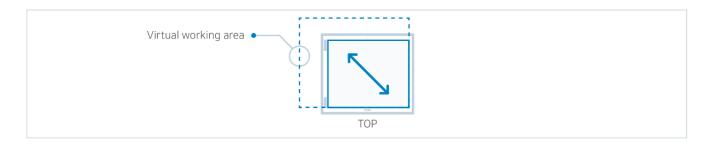
14. Project Change without PC, On The Spot

Using project browser menu, project launch file(HBZ) in USB memory/SD card/TOP internal memory can be selected. When the [OK] button is pushed, project can be changed on the spot.



15. Wider Use by Zoom Screen Function

Virtual working space, which is bigger than product's resolution, is supported.



INDUSTRIAL HMI/SCADA SOLUTION TOP HARDWARE INTRODUCTION_16P

Solid and High-Performance Hardware

Smarter

TOPR, RX, RW, RE, RH support QUAD CORE CPU, 16M FULL COLOR

QUAD CORE CPU

Extraordinary



16M FULL COLOR

Clean and detail display with bright and clear touch screen

Convenient TOP Menu

Top-side menu bar shows by drawing down from top side of screen. When EXIT button is pushed, screen is changed to menu screen. They are organized with Icons, and supporting korean/english. This menu support variable information and convenient functions.

Top-side menu



Menu screen















Supplying various functions in menu as, Communication Status Checking/Touch Sensing Test and Calibration/Data Move/Setting Changes/Information Display. Menu Screen can be protected and managed by Admin Password

Certificates























Representative Interfaces

USB OTG

Convertible port between 'Transmitter mode' to transfer the program and 'Host mode' to connect USB devices like memory, barcode reader, or camera.

SD Card

Saving data like Log/Alarm/Recipe, Up/Downloading files like Project/Image/Video/Text, and Recovery disk.

Ethernet Port

Connect with PLC, PC, camera, barcode reader, etc.

Rear USB HOST Port

Connect with barcode reader, camera, memory, etc.

Serial Port

Connect with PLC, servo, temp controller, barcode reader,

This description introduces common ports for all series M2I supports, so each model's available port can be different. Please check exact port configuration in specifications and draws of each model.

Connectable Devices by Serial/Ethernet Port

Manufacturer	Series	CPU Type	RS-232C/422/485	Ethernet
PLC				
	MELSEC-Q	QDD/00J/DDH/DDUDH/DDUDEH	•	•
	MELSEC iQ-R	R□□	•	•
	MELSEC-FX	FX0/1/2/1S/1N/2N/2NC/3U/3UC/3G	•	
		10/20GM	<u> </u>	
MITSUBISHI Electronic Corporation	MELSEC iQ-F	5U	<u> </u>	•
		A1N/2N/3N	<u> </u>	•
	MELSEC-A	A1S(H)/2S(H)/A0J2(H)	<u> </u>	•
		A2A/3A/2A-S1	<u> </u>	•
	61/61/14 6 6 16	A2U/3U/4U/2USH	•	•
	SYSMAC CJ2	CJ2H		•
	SYSMAC CJ1	CJ1G/1M		•
	SYSMAC CS1 NJ	CS1G/H NJ□□□		•
	NX	NXDDD		•
OMRON Industrial Automation	SYSMAC CP	CP1L/1H		•
	313MAC CF	C50/120/200/500/1000		
	SYSMAC C	CQM1/1H		
	313MAC C	CPM1/2A/2C		
	Mobile Robot LD	LD60/LD90		•
	XGT	XGI/XGR/XEC/XMC	•	•
	XGB	XGK/XBM/XBC		•
	GLOFA-GM	GM1/2/3/4/6/7	•	•
LS Industrial Systems		80/120/200/300/1000S	•	•
, -	Marit	10S1/10/30/60/100S	•	
	Master-K	60/200H	•	
		500(H)/1000	•	
	SIMATIC S7-1200	All models		•
	SIMATIC S7-1500	All models		•
	SIMATIC S7-400	All models		•
SIEMENS AG.	SIMATIC S7-300	All models		•
	SIMATIC S7-200	All models		•
	LOGO!	OBA8		•
	SIMATIC S5	90/95/100/115/135/155U	•	
	ControlLogix	1756	•	•
	CompactLogix	1768/1769	•	•
Rockwell Automation(Allen Bradely)	MicroLogix	1000/1200/1500 system	<u> </u>	•
	SLC500	SLC5/03/04/05	<u> </u>	•
	PLC-5	PLC5/11/20/30/40/40L/60/60L	•	
MODBUS	MODBUS	All models	•	
	MODBUS/TCP	All models		•
GE Fanuc Intelligent Platforms	Series 90-30 PLC	C693C		•
	Series 90-70 PLC	IC697C□□□□□		•
	Micro	TSX37 All models		•
	Premium	TSX/TPMX P57 All models		
Schneider Electric Industries	Twido Quantum	TWD LCAA/LMDA All models 140 CPU All models		•
	Momentum M340	171 CCS/CCC All models M340		•
PANASONIC Electric Works	FP	FP2(SH)/X/Σ/0/e/M/10S(H)/3/1,FP-X,FP7	•	•
PANASONIC LIECTIC WOLKS	PROGIC-8	PROGIC-8		
	MP900/2000/3000	MP920/930/2200/2300		•
YASKAWA Electric Corporation	Control Pack	CP-9200SH		
	SR100	SR100		•
YOKOGAWA Electric Corporation	FA-M3	F3SP□□-□N/H/S	•	•
·	Micrex-SX	SPHOOD	•	-
FUJI Electric	Micrex-F	F, F□□(S/H), F1□□(S/H), F200	•	
		KV-700/1000/3000/5000/7000/8000	•	•
KEYENCE Corporation	KV	KV-10/24	•	•
		Nano	•	•
KOYO Electronic Industries	DL-205/305/405	D2 240/330/430	•	
	FBs	FBs-□□MA/MC/MN	•	•
FATEK Automation Corporation	FBe	FBe-□□MA/MC	•	
	FBn	FBn-□□MCT	•	
	Alpha	N7/NX(70/700/750/CCU)	•	
	Plus	NX7/NX Plus(70P/700P/CCU+)	<u> </u>	
RS Automation	SPC	SPC-10/100/120S/300	<u> </u>	
	N7_NX	70./700/750	<u> </u>	•
	X8	All models	<u> </u>	•
	CM1	XP/CP	<u> </u>	•
KDT Systems	CM2	BP	<u> </u>	•
TOCUUDA	CM3	S/SB	<u> </u>	•
TOSHIBA	T/V	All models		
Comfile Technology	Tiny PLC	TCP-3X/9X		
<u> </u>	Qubloc	All models		
Hitachi Industrial Equipment Systems	HIDIC-H	EH-150	•	

Manufacturer	Series	CPU Type	RS-232C/422/485	Ethernet
		Micro EH	•	
Delta	DVP	DVP series		
VIGOR Electric Corporation	M/VB/VH	M series / VB series / VH series		
HONEYWELL	HC900	HC900		•
IDEC Corporation	MicroSmart	FC3/FC4A		
HAWE Hydraulik	PLVC	PLVC		
TIAVE TIYOTAUIK	ACON	ACON-CB/CGB/C/CA/CG/SE/CY		
	ACON			
	PCON	PCON-CB/CGB/CFB/CGFB/CA/CFA/C/CG/CF/ SE/CY	•	
IAI Corporation	SCON	SCON-CB/CGB/CB-F/CA/CAL/CGAL/C		
IAI COI POI ALIOIT				
	RCP6	RCP6S		
	ERC	ERC2/3		
	XSEL	XSEL-J/K/JX/KX/P/Q/PX/QX		
BECKHOFF	TwinCAT	TwinCAT supporting ADS/AMS		•
Azbil Corporation	SDC, DCP, DMC, CMC	SDC, DCP, DMC, CMC	_ •	
CODESYS	CODESYS V2		<u> </u>	•
	CODESYS V3			•
B&R Automation	X20	X20	•	
JTEKT	TOYOPUC	PC10G, PC3J/PC3JX, Plus	•	•
emperature Controller				
	СВ	CB100/400/500/700/900	•	
	FB900/400	All models	•	
	HA900/400	All models	•	
	MA900/901	All models	•	
RKC Instrument	SRV	V-TIO-A/V-TIO-C	•	
	SRX	X-TIO-A		
	SA200/100	SA100		
	SR Mini HG	H-PCP-A/H-PCP-J		
	SRZ	Z-TIO/DIO/CT/COM		
	NP200/100	All models		
HanyoungNux	NX, PX	NX9/7/3/2, PX9/7		
,	RT	RT9	_ •	
	UX100	UX100	<u> </u>	
	NOVA500	SD500/SL500/SP500/ST500		
SamwonTech	NOVA300	SD3□□/SS3□□/ST3□□	•	
	SP790	SP7□□	•	
YOKOGAWA Electric Corporation	UT/UP/UM	UT(/UP/UM/UD)3/4/5/7/10□□	•	
	DB	DB1/DB2 All models	•	
	KP	KP1/2/3 All models	•	
CHINO Corporation	LT	LT23/3/4/830 All models	•	
	JU	JU All models	_ <u> </u>	
	JW	JW All models		
Human Automation	TSD	V5-SC1T		
On Off Ststem	HSD	NEOS-HSD		
TOHO	TTM	TTM-00□		
TOHO				
Tananalina	T50	T50		
TemcoLine	N50	N5□		
	M74	M74	•	
nvertor				
LS Industrial Systems	Starvert Inverter	SV-iS7/G5A/P5A/C5/V5/G5/S5/H/V/S3	•	
Huropec	HC	HC	•	
FUJI Electric Systems	Inverter	FRN00011S-0	•	
Weight Indicator				
AND	AD	AD4326/4327/4328/4329	•	
	CI/NT	CI/NT	•	
CAS	XB	XB	•	
	CI-1580A	CI-1580A	•	
BONGSHIN	BS	BS	•	
SEWHA CNM	SI	SI-4000		
Shinhan Electronics	SH	SH-5100		
MINEBEA	CSD	CSD-912/912B-EX/903/904-EX/891B/815B/ 701B/709/819C/401	•	
Barcode Reader		, 3 15/, 105/ 0136/ 401		
	Parcada	LISP/DS_222C		
General Barcode Reader	Barcode	USB/RS-232C		
KEYENCE Corporation	Barcode	BL-1300 Sereis	_	
OMRON Industrial Automation	Barcode	MicroHAWK Barcode Reader		•
Cognex Corporation	Barcode	DataMan Series		•
OPTION	Barcode	NLV		•
KEVENCE Corporation	Barcode	SR Series(SR1000/SR1000W/SR-X300/	•	•
KEYENCE Corporation	barcode	SR-X300W)	•	•
RFID Reader				
		V680	•	
OMRON Industrial Automation	RFID	V680S		•
LS Industrial Systems	RFID	XCODE-1306/1307	•	
IDRO	RFID	900F		•
IDNO	NUD NUM			•
CEYON Technology	RFID	TRA5		
		CRE1356		•
SICK AG.	RFID	RFH6xx	_	
SYSTEMK	RFID	HFR-2AM/4AM		•

Manufacturer	Series	CPU Type	RS-232C/422/485	Ethernet
Motion Controller				
	iMS-J	iMS-J	•	
DST ROBOT(former DONGBU)	iM-Σ	iM-Σ2/3/4/5/6/7/8	•	
DST ROBOT(TOTTIET DONGBO)	iM-U	iM-U	•	•
	DTR	DTR2/3/4	•	
ROBOSTAR	Newro	RCS6000/RCM	•	
	MCU	MCU-MA/MP/XA/XP	•	
	MCU2	MCU-MA2/MP2/XA2/XP2	•	
EMOTIONTEK	MCS	MCS-80A4/P4/A8/P8	•	
	MCSH	MCSH-1/2/16/80	•	
	MCST	MCST-16		•
OMRON Industrial Automation	Campositioner	3F88L-160/162	•	
FASTECH	Ezi-Servo	Plus-R	<u> </u>	
TASTECTI		Plus-E		•
Gidding & Lewis	MMC	MMC	•	•
TOSHIBA	COMPO	COMPO ARM ROBOT	•	
Lenze	L-Force	L-Force servo		•
Delta-Tau	PMAC	PMAC	•	•
MiSUMi	EXRS-C1	EXRS-C1	•	
CSCAM	GX	All models	•	
Servo				
MITSUBISHI Electronic Corporation	MELSERVO	MR-J2S/M, MR-J3, MR-J4	•	
HIGEN Motor(former OTIS)	FDA	FDA6000/7000	•	
LS MECAPION(former Metronix)	Anypack	APD-VS/VP/VK/VN□□	•	
Parker Hannifin	Compax3	All models	•	
LinMot	LinRS	B1100/E1100/E1200/E1400	•	
Screw Driver				
KOLVER Srl	EDU	2AE/TOP/TA/MITO	•	
	MT Focus	400		
Atlas Copco	Power Focus	6000		•
TOHNICHI	CEM/CTB	CEM3-G/CTB2-G		•
SEHAN Electools	SHC	All models		
	SHC	All models	•	
Measurement	Chart Danada			
YOKOGAWA Electric Corporation	Chart Recorder	µR10000/20000		•
SAMAHN TECH	Air Speed Meter	Air Speed Meter		
Ophir Optronics Solutions	Laser Power Meter	Nova II - Thermopile	•	
ROOTECH	Digital Power Meter	Accura Series	• •	•
Green Power	CPS	CPS Master / Slave	•	
DONGDO TECH	ML	ML Series	<u> </u>	
SERVOMEX	DF	DF-3□□E, DF-7□□	<u> </u>	
Tiger Optics	HALO	HALO KA, HALO 3		
MKP	MFC	VIC-D2000 Series	•	
OMRON Industrial Automation	EQUO Series	Air Thermo Station		•
Wireless Data Receiver				
PATLITE	WDR	WDR-LE-Z2		•
Multiplexer				
S,I TECH	MUX	MUX	•	
Camera				
S & E	TMS	TMS 080/160		•
Motor				
CKD	ABSODEX	All models	•	
Printer			-	
ZEBRA	Printer	Printer	•	•
DDC	T THICK!	1111001		-
ASIC	DDC	DDC	•	
Speed tech	ExtDDC	ST/PS, ST/RS, ASIC/2-7040		
Fieldbus	EXIDDC	31/F3, 31/R3, M3IC/Z=/U4U	•	
EtherCAT				•
CANopen			•	_
Ethernet/IP				•
Industrial Control System				-
OPC UA				•
Building Automation				
BACnet/IP				•
BACnet/MSTP			•	
Power System Automation				
IEC 60870-5-101			•	
DNP3				•
Image Stream				
Cognex Corporation	Insight Vision	Insight Vision		•
Leuze Electronic	IPS 200i	IPS 200i		•
Other Standard Protocol				
SECS	HSMS			•
IP Camera	RTSP/RTP			•
NMEA0183			•	
				•

* This connectable device list can be changed and updated per development situation

INTERFACE

SERIAL 3 PORTS | ETHERNET 2 CHANNEL | USB HOST 2 PORTS | USB OTG | SD CARD OPTION MODULE | CAMERA | HDMI OUT | AUDIO OUT | VIDEO IN

* Multimedia functions are supported only in premium model

CERTIFICATION

















QUAD CORE CPU

Quad core processor supplying rapid processing speed



ALUMINUM FRAME

Aluminum body with outstanding durability and splendid design



SUPPORTING 2 ETHERNET CHANNELS

2 Ethernet channels with different IP



T6 TEMPERATURE LEVEL CERTIFICATION

KCs(Korea), CCC(China), ATEX(Europe), Hazloc(North America), IECEx(Global) certification



16M FULL COLOR

Bright and vivid full color, supports vector image library



DETACHABLE UNIT STRUCTURE

Efficient combinaton of variable-size display unit and process unit depend on system requirement



FRONT-SIDE OTG USB

Supporting both HOST mode(USB devices i.e.memory, barcode reader, camera, etc) and program transmission mode



MULTIMEDIA FEATURE(PREMIUM MODEL)

Front-side camera, audio output, video input, HDMI output



TOPR SERIES_22P

DISPLAY UNIT

PREMIUM MODEL

	Functional	TOPRD1520X	TOPRD1220X	TOPRD1020S
	Display Type	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color		16M Colors	
	Display Area(mm)	304.1x228.1	246x184.5	211.2x158.4
Display	Resolution(dot)	1024x768	1024x768	800x600
	Brightness Level		10 Levels(by software)	
	Backlignt Type		LED	
	Backlight Life		50,000 hours	
	Touch Type		Analog resistive film	
Touch	Resolution(Cell)	1024x768	1024x768	800x600
	Touch Life		1 million times or more	
Embedded Device	Front Camera		USB UVC Max, Resolution: 640x480	
	Panel Cut(mm)	355x286	306x247	260x202
Structure	External Dimension(mm)	370x301x36.7	320x261x34.2	276x219,5x32.6
	Weight(kg)	3.58	2.44	1.88

PROCESS UNIT

* Process unit can be assembled with variable display units

	Functional	TOPRP20D	
		RS-232C, RS-422/485 Asynchronous +5Vdc PWR	
		Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even	
	Serial COM1	Baud rate: 2400~115,2kbps	
		Connector: DSUB 9pin x 1	
		RS-232C, RS-422/485 Asynchronous	
	6	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even	
	Serial COM2	Baud rate: 2400~115.2kbps	
		Connector: DSUB 9pin x 1	
		RS-485 Asynchronous	
	Carlal COMO	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even	
	Serial COM3	Baud rate: 2400~115.2kbps	
		Connector: 3,5mm 3pin x 1	
	File	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX	
	Ethernet	Connector: RJ-45 x 2	
Interface		USB 2.0 Compatible, Output 5Vdc/0.5A	
	USB Host	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)	
		Connector: USB Type A x 2	
		USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m	
	USB OTG	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)	
		Connector: USB Micro-B(Front) x 1	
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)	
	Option Modules	CAM32	
	HDMI Output	HDMI v1.4a, HDMI Output, Max. Resolution: 1920x1080 at 60Hz	
	HDMI Output	Connector: HDMI x 1	
	Video Input	Decodes NTSC, PAL or SECAM composite video, S-Video	
	video liiput	Connector: RCA socket x 1	
	Audio Outout	Stereo output	
	Audio Output	Connector: 3,5mm Audio socket x 1	
	Printer	Roll Printer(EPSON protocol): RS-232C	
	Screen memory	128MB	
Managari	Backup memory	512KB: System buffer(10K Word), Including Alarm/Logging/Recipe	
Memory & Others	Backup Period	Permanent	
X OTHERS	Real Time Clock	Built in	
	Status LED	3 LEDs(Power, Operation, Link) Built in	
Structure	External Dimension(mm)	201.6x147.6x37.3	
Juliuliule	Weight(kg)	0.82	

DISPLAY UNIT

STANDARD MODEL

Functional		TOPRD1510X	TOPRD1210S	TOPRD1010S
	Display Type	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color		16M Colors	
	Display Area(mm)	304.1x228.1	246x184.5	211.2x158.4
Display	Resolution(dot)	1024x768	800x600	800x600
	Brightness Level		10 Levels(by software)	
	Backlignt Type		LED	
	Backlight Life		50,000 hours	
	Touch Type		Analog resistive film	
Touch	Resolution(Cell)	1024x768	800x600	800x600
	Touch Life		1 million times or more	
Structure	Panel Cut(mm)	355x286	306x247	260x202
	External Dimension(mm)	370x301x36.7	320x261x34.2	276x219.5x32.6
	Weight(kg)	3.58	2.44	1.88

PROCESS UNIT

* Process unit can be assembled with variable display units

	Functional	TOPRP10D			
		RS-232C, RS-422/485 Asynchronous +5Vdc PWR			
	Carial COMA	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even			
	Serial COM1	Baud rate: 2400~115.2kbps			
		Connector: DSUB 9pin x 1			
		RS-232C, RS-422/485 Asynchronous			
	Serial COM2	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even			
	Serial COM2	Baud rate: 2400~115.2kbps			
		Connector: DSUB 9pin x 1			
		RS-485 Asynchronous			
	Serial COM3	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even			
	Serial COMS	Baud rate: 2400~115.2kbps			
Interface		Connector: 3.5mm 3pin x 1			
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX			
	Ethernet	Connector: RJ-45 x 2			
		USB 2.0 Compatible, Output 5Vdc/0.5A			
	USB Host	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)			
		Connector: USB Type A x 2			
		USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m			
	USB OTG	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)			
		Connector: USB Micro-B(Front) x 1			
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)			
	Option Modules	EtherCAT, CAM32			
	Printer	Roll Printer(EPSON protocol): RS-232C			
	Screen memory	128MB			
Memory	Backup memory	512KB: System buffer(10K Word), Including Alarm/Logging/Recipe			
& Others	Backup Period	Permanent			
	Real Time Clock	Built in			
	Status LED	3 LEDs(Power, Operation, Link) Built in			
Structure	External Dimension(mm)	201.6x147.6x37.3			
Judelale	Weight(kg)	0.82			

DISPLAY + PROCESS UNIT

PREMIUM/STANDARD MODEL

1	Functional	15"	12.1"	10.4"				
	Input Voltage		24Vdc(20~28Vdc)					
Power	Power Consumption	18W or less	15W or less	15W or less				
Power	Voltage Sag	24Vdc, Within 10ms						
	Insulation Resistance	500Vdc, 10MΩ						
	Operation Temperature(℃)		-10 ~ +50					
	Storage Temperature(℃)	-20 ~ +60						
	Operation Humidity(%RH)	0 ~ 90(No Dew)						
	Atmosphere	No corrosive gas						
	Vibration Endurance	Amplitu	de: 10≤F < 25Hz(2G) X,Y,Z each direction(for 30	minutes)				
Environment	Noise Immunity		1000Vp-p(Pulse width 1µs)					
	Static Electricity Discharge		Connective discharge from EN61000-4-2: ±4k	/				
	Shock Endurance		10G X,Y,Z each direction(for 3 times)					
	Ground Connection	Class 3(100Ω or less)						
	Protection Classification		IP65(Front)					
	Certification	CE, KC, UL						
	Weight(kg)	4.4	3.26	2.7				
Structure	Cooling System		Natural air circulation					
	Case Material	AL(Aluminum)						



DISPLAY UNIT

ATEX MODEL

F	Functional	TOPRT1210SD-Ex			
	Display Type	12.1" TFT Color			
	Color	16M Colors			
	Display Area(mm)	246x184.5			
Display	Resolution(dot)	1024x768			
	Brightness Level	10 Levels(by software)			
	Backlignt Type	LED			
	Backlight Life	50,000 hours			
	Touch Type	Analog resistive film			
Touch	Resolution(Cell)	1024×768			
	Touch Life	1 million times or more			
Embedded Device	Front Camera	USB UVC Max. resolution: 640x480, 4 Adjustable angles: Up 20°, 10°, 0°, Down 10°			
	Panel Cut(mm)	306x247			
Structure	External Dimension(mm)	320x261x34.2			
	Weight(kg)	2.44			

PROCESS UNIT

	Functional	TOPRT1210SD-Ex				
		RS-232C, RS-422/485 Asynchronous +5Vdc PWR				
	Serial COM1	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even				
	Serial COM I	Baud rate: 2400~115.2kbps				
		Connector: DSUB 9pin x 1				
		RS-232C, RS-422/485 Asynchronous				
	Serial COM2	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even				
	Serial COM2	Baud rate: 2400~115.2kbps				
		Connector: DSUB 9pin x 1				
		RS-485 Asynchronous				
	Serial COM3	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even				
	Serial COMS	Baud rate: 2400~115.2kbps				
Interface		Connection: 3,5mm 3pin x 1				
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX				
	Ethernet	Connector: RJ-45 x 2				
		USB 2.0 Compatible, Output 5Vdc/0.5A				
	USB Host	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)				
		Connector: USB Type A x 2				
		USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m				
	USB OTG	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)				
		Connector: USB Micro-B(Front) x 1				
	SD Card	SD Card Slot x 1, SDHC(Max. 32GB)				
	Option Modules	EtherCAT, CAM32				
	Printer	Roll Printer(EPSON protocol): RS-232C				
	Screen Memory	128MB				
Managari	Backup Memory	512KB: System Buffer(10K Word), Including Alarm/Logging/Recipe				
Memory & Others	Backup Period	Permanent				
a others	Real Time Clock	Built in				
	Status LED	3 LEDs(Power, Operation, Link) Built in				
Structure	External Dimension(mm)	201.6x147.6x37.3				
Structure	Weight(kg)	0.82				

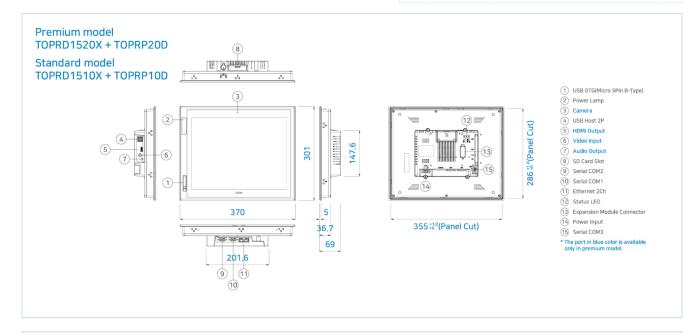
DISPLAY + PROCESS UNIT

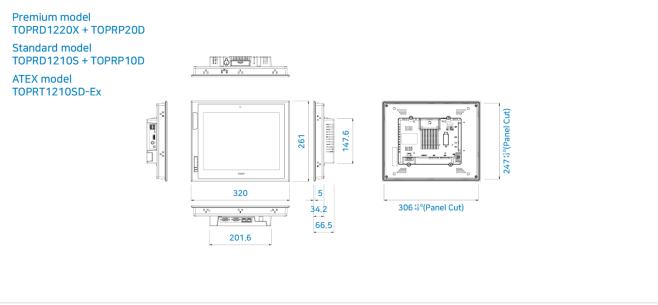
ı	Functional	TOPRT1210SD-Ex			
	Input Voltage	24Vdc(20~28Vdc)			
Power	Power Consumption	15W or less			
Power	Voltage Sag	24Vdc, Within 10ms			
	Insulation Resistance	500Vdc, 10MΩ			
	Operation Temperature(℃)	-10 ~ +50			
	Storage Temperature(℃)	-20 ~ +60			
	Operation Humidity(%RH)	0 ~ 90(No Dew)			
	Atmosphere	No corrosive gas			
	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X,Y,Z each direction(for 30 minutes)			
Environment	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 or less)			
	Protection Classification	IP65(Front) for CE/KC/UL, IP54(Front) for CCC, IP4X(Front) for KCs			
	Certification	CE, KC, UL, KCs, CCC, ATEX, IECEx, Hazloc			
	Weight(kg)	3.26			
Structure	Cooling System	Natural air circulation			
	Case Material	AL(Aluminum)			

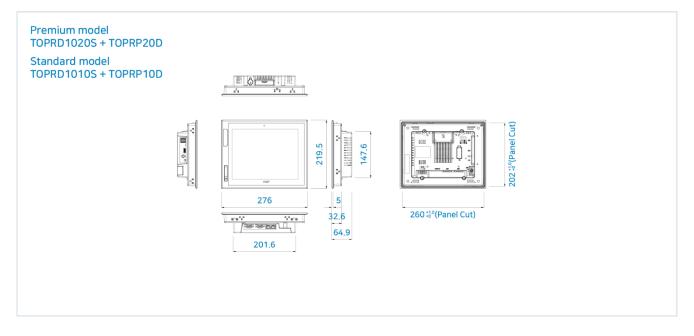
DRAWING

* Each inch model's blueprint size of premium model and standard model are same

* Each port's name and position are refered to 15 inch model's blueprint







INDUSTRIAL HMI/SCADA SOLUTION TOP TOPRX SERIES_26P



The Series Developed TOPR's Function from **XTOP Products**

Normal/EX Model





INTERFACE

SERIAL 3(2) PORTS | ETHERNET 2(1) CHANNEL | USB HOST | USB OTG | SD CARD * 15", 12",10", 8", 5" please check the number of ports by each model

CERTIFICATION















FEATURES



QUAD CORE CPU

Quad core processor supplying rapid processing speed



TOUCH DRAG FEATURE

Available touch drag to make a picture memo or scroll down to appear top-side menu



COMPATIBILITY WITH XTOP SERIES

Same panel cut size of XTOP series easy to replace discontinued XTOP model



FRONT-SIDE OTG USB

Supporting both HOST mode(USB devices i.e.Memory, barcode reader, camera, etc) and program transmission mode



16M FULL COLOR

Bright and vivid full color, supports vector image library



RRFIND INTEGRATED BODY

Refined integrated body with advantage of easy



SUPPORTING 2 ETHERNET CHANNELS

2 Ethernet channels with different IP (10" or upper model)



T6 TEMPERATURE LEVEL CERTIFICATION

KCs(Korea), CCC(China), ATEX(Europe), Hazloc(North America), IECEx(Global) certification













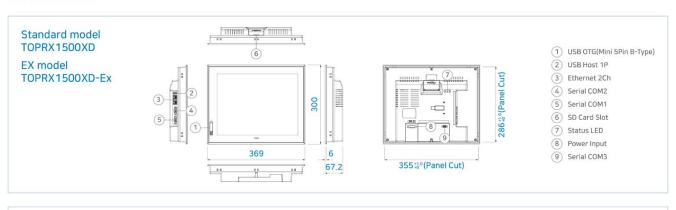


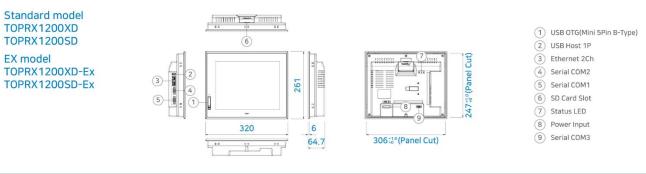
TOPRX SERIES_28P

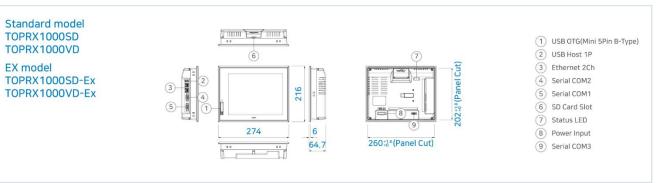
TOPRX SPECIFICATIONS

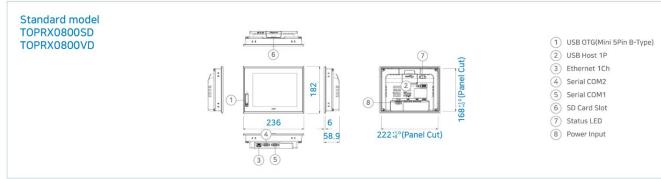
Forest	and .	General model	TOPRX 1500XD	TOPRX 1200XD	TOPRX 1200SD	TOPRX 1000SD	TOPRX 1000VD	TOPRX 0800SD	TOPRX 0800VD	TOPRX 0500VD	
Function		explosion proof model	TOPRX 1500XD-Ex		TOPRX 1200SD-Ex	TOPRX 1000SD-Ex	TOPRX 1000VD-Ex				
	Display Type Color Display Area(mm)		15" TFT Color	12.1" TFT Color	12.1" TFT Color		10,4" TFT Color Colors	8.4" TFT Color	8.4" TFT Color	5.6" TFT Colo	
			304.1x228.1	246x184.5	246x184.5	211.2x158.4	211.2x158.4	170.4x127.8	170.9x128.2	112.9x84.7	
Display	Resolution(do	ot)	1024x768	1024x768	800x600	800x600	640x480	800x600	640x480	640x480	
	Brightness Le	evel	10 Levels(by software)								
	Backlight Typ	е				LE	ED				
	Backlight Life) hours				
	Touch Type						sistive film			0.10 1.00	
Touch	Resolution(ce	·II)	1024x768	1024x768	800x600	800x600	640x480	800x600	640x480	640x480	
	Touch Life				DC 222C DC		nes or more	/D			
	Serial COM1					its, Stop bit: 1/2 00~115.2kbps	ronous +5Vdc PV bits, Parity bit: N				
	Serial COM2					00~115.2kbps	onous bits, Parity bit: N	lone/Odd/Even			
Interface	Serial COM3		Data b Baud	35 Asynchronous bit: 7/8 bits, Stop rate: 2400~115. ector: 3.5mm 3pi	bit: 1/2 bits, Par 2kbps		Not available				
	Ethernet			IEEE802.3i/IEEE Connector: RJ-4	IEEE802.3i/IEEE802.3u, 10BASE- T/100BASE-TX Connector: RJ-45 x 1						
	USB Host		USB 2.0 Compatible, Output 5Vdc/0.5A Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Type A x 1								
	USB OTG		USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Mini-B(Front) x 1								
	SD Card			Con			SDHC(MAX 32GE	8)			
	Printer						rinter(EPSON protocol): RS-232C				
	Screen Memo	orv					BMB				
	Backup Memo		512KB: System buffer(10K Word), Including Alarm/Logging/Recipe								
Memory & Others	Backup Period		Permanent								
& Others	Real Time Clo	ck				Bui	lt in				
	Status LED				3	LEDs(Power, Ope	ration, Link) Built	t in			
	Input Voltage					24Vdc(20	0~28Vdc)				
Power	Power Consu	mption	18W or less	15W	or less			12W or less			
1 01101	Voltage Sag					0755 TO 0755 CO 0000	ithin 10ms				
	Insulation Res						c, 10MΩ				
	Operation Ter						+50				
	Storage Temp		-20 ~ +60								
	Operation Hu	midity(%RH)					No dew)				
	Atmosphere Vibration End	luranco			Amplitudo: 10		sive gas Z each direction(for 20 minutes)			
	Noise Immuni				Amplitude, 10.		Ise width 1µs)	ioi 30 minutes)			
nvironment		city Discharge			Conne			2: +4kV			
	Shock Endura	,	Connective discharge from EN61000-4-2: ±4kV 10G X,Y,Z each direction(for 3 times)								
	Ground Conne						OΩ under)				
	Protection Cla	assification	General model: IP65(Front), Explosion proof model: IP54(Front)						ront) for KCs		
	Certification		General model: CE, KC, UL Explosion proof model: CE, KC, UL, KCs, CCC, ATEX, IECEx, Hazloc								
	Panel Cut(mm)		355x286	306x247	306x247	260x202	260x202	222x168	222x168	158x126	
	External Dime	ension(mm)		320x261x64.7			274x216x64.7		236x182x58.9	172x140x58	
Structure	Weight(kg)		2.78	2.18	2.18	1.68	1.68	1.06	1.06	0.62	
	Cooling Syste						circulation				
	Case Material			PC(Resistance to flame)							

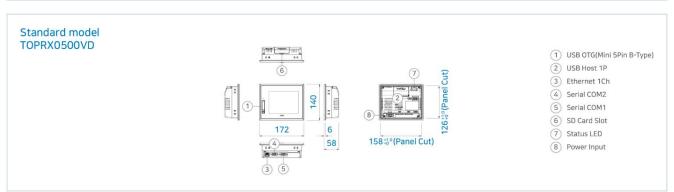
DRAWING













TOP RW

With a Wider Screen

TOPRW Series



INTERFACE

SERIAL 2 PORTS | ETHERNET 1 CHANNEL | USB HOST | USB OTG | SD CARD * USB HOST functions is supported only in 10" and 7"









FEATURES



QUAD CORE CPU

Quad core processor supplying rapid processing speed



TOUCH DRAG FEATURE

Available touch drag to make a picture memo or scroll down to appear top-side menu



800x480 HIGH RESOLUTION

With 10", 7", 5" wide screen ratio, expansion of work-area available



FRONT-SIDE OTG USB

Supporting both HOST mode(USB devices i.e.Memory, barcode reader, camera, etc) and program transmission mode



16M FULL COLOR

Bright and vivid full color, supports vector image library



REFINED INTEGRATED BODY

Refined integrated body with advantage of easy



COMPATIBILITY WITH XTOP SERIES

With same panel cut size of XTOP, easy to replace discontinued XTOP model

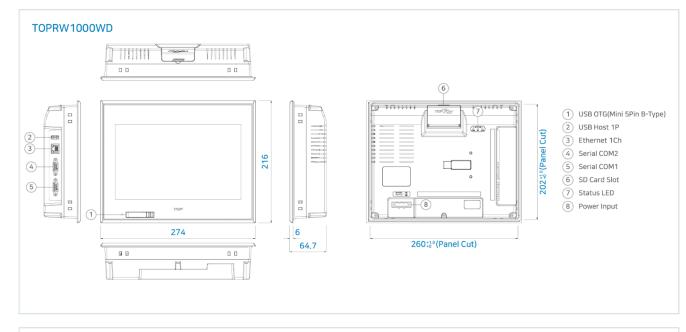
TOPRW SERIES_32P

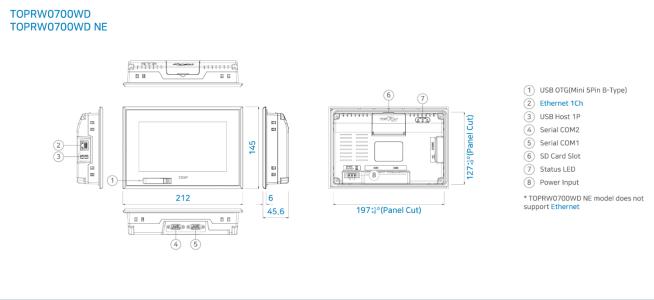
TOPRW SPECIFICATIONS

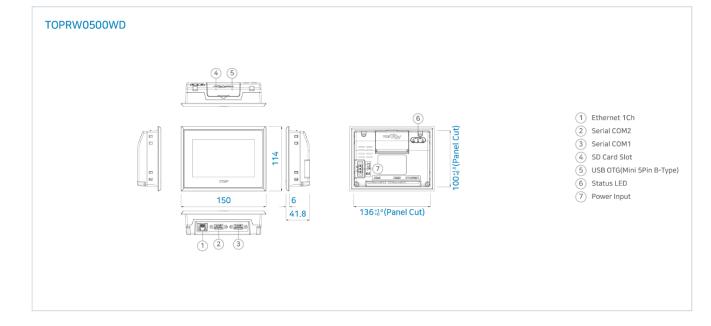
F	Functional	TOPRW1000WD	TOPRW0700WD	TOPRW0700WD NE	TOPRW0500WD
	Display Type	10.2" TFT Color	7" TF	-T Color	5" TFT Color
	Color		16M	l Colors	
	Display Area(mm)	222x132.48		54x86	108x64.8
Display	Resolution(dot)		800	0x480	
	Brightness Level		10 Levels	(by software)	
	Backlight Type		l	LED	
	Backlight Life		50,000 hours		
	Touch Type		Analog re	esistive film	
Touch	Resolution(Cell) 800x480				
	Touch Life		1 million ti	imes or more	
	Serial COM1		RS-232C Asynchronous +5Vd Data bit: 7/8 bits, Stop bit: 1/: Baud rate: 2400~115.2kbps Connector: DSUB 9pin x 1	c PWR 2 bits, Parity bit: None/Odd/Even	
	Serial COM2		RS-232C, RS-422/485 Asynch	nronous 2 bits, Parity bit: None/Odd/Even	
Interface	Ethernet	IEEE802.3i/IEEE802.3u, Connector: RJ-45 x 1	10BASE-T/100BASE-TX	Not available	IEEE802.3i/IEEE802.3u 10BASE-T/100BASE-T/ Connector: RJ-45 x 1
	USB Host	USB 2.0 Compatible Support: USB Stora Connector: USB Typ	ge, USB Barcode Scanner(Standa	ard Keyboard Protocol)	Not available
	USB OTG		B 2.0 Compatible, Output 5Vdc/0 oport: USB Storage, USB Barcode Connector: USB Mini-B(Front) x	Scanner(Standard Keyboard Proto	cool) Connector: USB Mini-B(Rear) x 1
	SD Card		CD Cord Clat v 1	, SDHC(MAX 32GB)	OSB MILLI-D(Real) X T
	Printer				
	Screen Memory		Roll Printer(EPSON protocol): RS-232C 128MB		
	Backup Memory			d), Including Alarm/Logging/Recipe	Δ
Memory	Backup Period			nanent	
& Others	Real Time Clock			uilt in	
	Status LED			eration, Link) Built in	
	Input Voltage			20~28Vdc)	
	Power Consumption	15W or less		12W or less	
Power	Voltage Sag		24Vdc, V	Within 10ms	
	Insulation Resistance		500V	dc, 10MΩ	
	Operation Temperature(°C)		-10	~ +50	
	Storage Temperature(℃)		-20	~ +60	
	Operation Humidity(%RH)		0 ~ 90	(No dew)	
	Atmosphere		No cor	rosive gas	
	Vibration Endurance		Amplitude: 10≤F<25Hz(2G) X,Y	/,Z each direction(for 30 minutes)	
nvironment	Noise Immunity		1000Vp-p(P	ulse width 1µs)	
	Static Electricity Discharge		Connective discharge	from EN61000-4-2: ±4kV	
	Shock Endurance		10G X,Y,Z each d	irection(for 3 times)	
	Ground Connection		Class 3(1	00Ω under)	
	Protection Classification			(Front)	
	Certification		C, UL	CE, KC	CE, KC, UL
	Panel Cut(mm)	260x202	19	7x127	136x100
	External Dimension(mm)	274x216x64.7	212x1	45x45.6	150x114x41.8
Structure	Weight(kg)	1.7).72	0.4
	Cooling System Case Material			ir circulation ance to flame)	

DRAWING

* TOPRW0700WD NE model does not support Ethernet











Integrated I/O HMI with Flexible Composition and Control

TOPRW-IO Series





INTERFACE

SERIAL 2 PORTS | ETHERNET 1 CHANNEL | USB HOST | USB OTG | SD CARD

CERTIFICATION





FEATURES



FLEXIBLE I/O SUPPORT

DIGITAL INPUT 16ch, DIGITAL OUT SINK 16ch,

- * ANALOG INPUT(Voltage 2ch, current 2ch),
- * ANALOG OUTPUT(Voltage 2ch, current 2ch),
- * RTD 2ch
- * Analog and RTD are supported only in TOPRW0700WD-IO



QUAD CORE CPU

Quad core processor supplying rapid processing speed



16M FULL COLOR

Bright and vivid full color, supports vector image library



REFINED INTEGRATED BODY

Refined integrated body with advantage of easy



COMPATIBILITY WITH XTOP SERIES

With same panel cut size of XTOP, easy to replace discontinued XTOP model



TOUCH DRAG FEATURE

Available touch drag to make a picture memo or scroll down to appear top-side menu



800x480 HIGH RESOLUTION

With 7" wide screen ratio, expansion of work-area available



FRONT-SIDE OTG USB

Supporting both HOST mode(USB devices i.e.Memory, barcode reader, camera, etc) and program transmission mode

TOPRW-IO Series_36P

TOPRW-IO SPECIFICATIONS

F	Functional	TOPRW0700WD-IO	TOPRW0710WD-IO	
	Display Type	7" TFT (olor	
	Color	16M Co		
	Display Area(mm)	154x8		
Display	Resolution(dot)	800x4		
-101-101	Brightness Level	10 Levels(by		
	Backlight Type	LED		
	Backlight Life	50,000 h		
	Touch Type	Analog resis		
Touch	Resolution(Cell)	800x4		
	Touch Life	1 million time	s or more	
		RS-232C Asynchronous +5Vdc P	VR	
	Ci-l COM4	Data bit: 7/8 bits, Stop bit: 1/2 bi	ts, Parity bit: None/Odd/Even	
	Serial COM1	Baud rate: 2400~115.2kbps		
		Connector: DSUB 9pin x 1		
		RS-232C, RS-422/485 Asynchrol	nous	
	C- 1-1 COMO	Data bit: 7/8 bits, Stop bit: 1/2 bi	ts, Parity bit: None/Odd/Even	
	Serial COM2	Baud rate: 2400~115,2kbps		
		Connector: DSUB 9pin x 1		
		IEEE802.3i/IEEE802.3u, 10	BASE-T/100BASE-TX	
Interface	Ethernet	AUTO MDIX		
		Connector: RJ-45 x 1		
		USB 2.0 Compatible, Output 5Vdc/0.5/	(
	USB Host	Support: USB Storage, USB Barcode Sc	anner(Standard Keyboard Protocol)	
		Connector: USB Type A x 1		
		USB 2.0 Compatible, Output 5Vdc/0.5/	A, Max 3m	
	USB OTG	Support: USB Storage, USB Barcode Sc	anner(Standard Keyboard Protocol)	
		Connector: USB Mini-B(Front) x 1		
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)		
	Printer	Roll Printer(EPSON pr	otocol): RS-232C	
		Digital Input 16ch, Digital Output 16ch,		
10	IO Function	Analog Input(Voltage 2ch, Current 2ch),	Digital Input 16ch, Digital Output 16ch	
		Analog Output(Voltage 2ch, Current 2ch),	Digital Impact 10011, Digital Gatpact 10011	
		RTC 2ch	_	
	Screen Memory	128M		
Memory	Backup Memory	512KB: System buffer(10K Word),		
& Others	Backup Period	Permar		
	Real Time Clock	Built		
	Status LED	3 LEDs(Power, Opera		
	Input Voltage	24Vdc(20~		
Power	Power Consumption	15W or		
	Voltage Sag	24Vdc, Witl		
	Insulation Resistance	500Vdc,		
	Operation Temperature(°C)	-10 ~ +		
	Storage Temperature(°C)	-20 ~ +		
	Operation Humidity(%RH)	0 ~ 90(No		
	Atmosphere	No corrosi		
uirone+	Vibration Endurance	Amplitude: 10≤F<25Hz(2G) X,Y,Z €		
vironment	Noise Immunity	1000Vp-p(Puls		
	Static Electricity Discharge	Connective discharge from		
	Shock Endurance	10G X,Y,Z each direc		
	Ground Connection	Class 3(100.		
	Protection Classification	IP65(Fr		
	Certification	CE, K		
	Panel Cut(mm)	197x1		
Structure	External Dimension(mm)	212x145		
Structure	Weight(kg)	0.81		
	Cooling System Case Material	Natural air ci Plast		
	Case Material	PlaSt		

TOPRW-IO SPECIFICATIONS

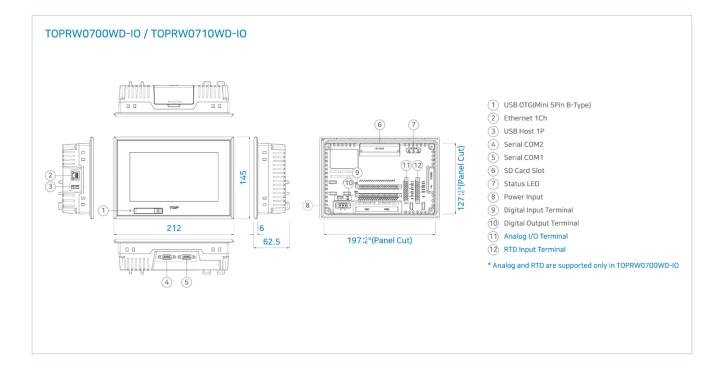
Ladder Programing based on IEC-61131-3		Ladder Operation by Sending a Program to TOPRW-IO Series	03	Ladder HMI Scr	Monitoring of the control of the con
100 100 A 10	thernet	TOPRW 10 Ladder Program Operation	Conne	ction	FAN SENSOR MOTOR LAMP ROBOT SERVO

I	Functional	Digital Input	Digital Output	
Туре	Input/Output Type	16 channels Sink and Source Type	16 channels Sink Type	
			24Vdc typ.	
	Innut/Output Valtage	24Vdc typ.	Min. 11.0Vdc ~ Max. 28.8Vdc,	
	Input/Output Voltage	On-State Min. 11.0Vdc ~ Max. 28.8Vdc, Off-State Max. 5Vdc	On-State Voltage Drop: Max. 0.3Vdc@25℃	
Power			Off-State Leakage Current: Max. 50uA	
	System Power Dissipation	Max. 70mA	Max, 120mA	
	Input Current in On State	Max. 6mA/Channel@28.8Vdc	N/A	
	Output Current in On State	N/A	Max. 0.5A/Channel@28.8Vdc	
	Max. On-State Voltage Drop	N/A	Max. 0.3Vdc@25℃	
	Off-State Leakage Current	N/A	Max. 50uA	
	Typ. Input Impedance	Τγρ. 4.7ΚΩ	N/A	
nterface	Innut/Output Signal Dalay	Off to On: Max. 0.1ms	Off to On: Max, 0.3ms	
iterrace	Input/Output Signal Delay	On to Off: Max. 0.5ms	On to Off: Max, 0.5ms	
	Input Filter(Digital)	0.5ms	N/A	
	Isolation	I/O to Logic: Photocoupler isolation		
	Field Power	Typ. 24Vdc(11.0Vdc ~ 28.8Vdc)		
Othor	Wiring	AWG 26 to	20	
Other	Pin No.	Removable Termina	al Block 20P	

* Analog	and RTD	are supported	only in	TOPRW0700WD	-1

F	Functional	Temperature Input(RTD)	Analog Input (AIV)	Analog Input (AIC)	Analog Output (AOV)	Analog Output (AOC)
Turo	Input / Output Type	2 Channels Analog RTD Type	2 Channels Analog Voltage Type	2 Channels Analog Current Type	2 Channels Analog Voltage Type	2 Channels Analog Current Type
Type	Sensor Type and Input / Ouput Range	PT100 * -200.0 to +850.0°C	0 ~ 5 Vdc	0 ~ 20mA	0 ~ 5 Vdc	0 ~ 20mA
Davis	System Power Dissipation	Max, 70mA@5,0Vdc Max, 200mA		200mA		
Power	Field power	N/A		Max. 60n	nA@24Vdc	
	Typ. Input Impedance	N/A	Min. 500KΩ	Max. 250Ω	N	/A
	Load		N/A		Min, 5KΩ	Max. 350Ω
	Data Format			16bits Integer		
	Resolution	0.0312°C/1bit	16bits, 0.076mV/1bit	16bits, 0.3uA/Bit	16bits, 0.076mV/1bit	16bits, 0.3uA/Bit
Characteristic	Conversion Time	Approx. 70ms, All Channel@50Hz		4ms/All	l Channel	
	Module Error		±	±0.1% Full Scale@+25℃, =0.3% Full Scale@0℃, +60		
	Isolation	Capacitive isolation				
	Common Type	2COM (1 Common/1 Channel)		2 COM(Sing	gle Common)	
Other	Wiring			AWG 26 to 20		
other	Pin No.		Removab	le Terminal Block 10P(3.5	mm pitch)	
			1101110100		/	

DRAWING





Compact Size, Light and Convenient

TOPRE Series







SERIAL 1 PORT | ETHERNET 1 CHANNEL | USB OTG | SD CARD

CERTIFICATION







FEATURES



QUAD CORE CPU

Quad core processor supplying rapid processing speed



TOUCH DRAG FEATURE

Available touch drag to make a picture memo or scroll down to appear top-side menu



4.3" COMPACT SIZE

Powerful performance with compact size



16M FULL COLOR

Bright and vivid full color, supports vector image library



REFINED INTEGRATED BODY

Refined integrated body with advantage of easy



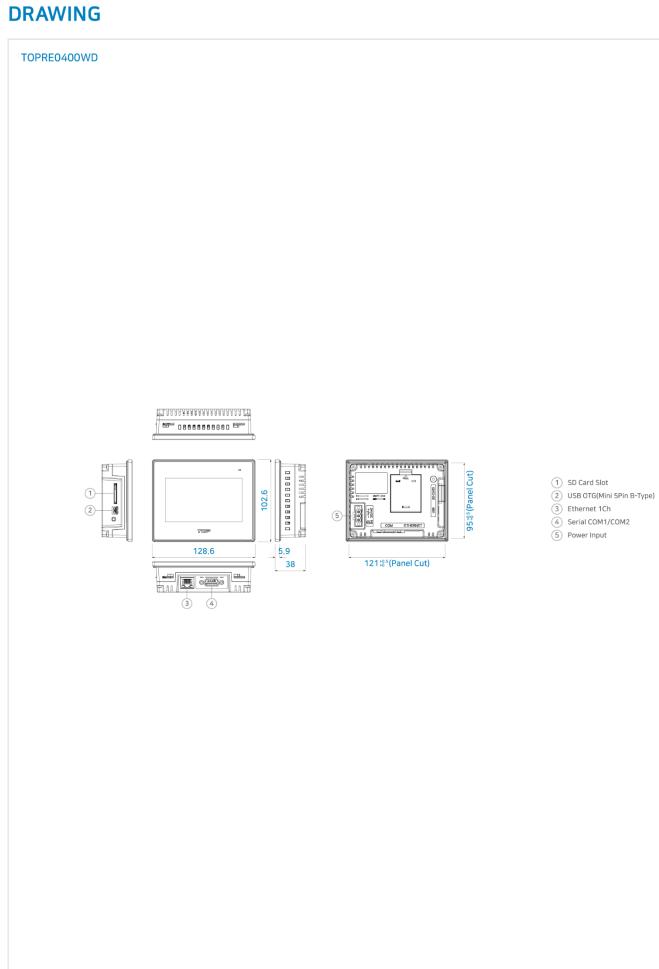
FRONT-SIDE OTG USB

Supporting both HOST mode(USB devices i.e.Memory, barcode reader, camera, etc) and program transmission mode

INDUSTRIAL HMI/SCADA SOLUTION TOP TOPRE SERIES_40P

TOPRE SPECIFICATIONS

	Functional	TOPRE0400WD	
	Display Type	4.3" TFT Color	
	Color	16M Colors	
	Display Area(mm)	95.04x53.85	
Display	Resolution(dot)	480x272	
	Brightness Level	10 Levels(by software)	
	Backlight Type	LED	
	Backlight Life	50,000 hours	
	Touch Type	Analog resistance film	
Touch	Resolution(Cell)	480x272	
	Touch Life	1 million times or more	
	Serial COM1	RS-232C, RS-422/485 Asynchronous	
	(RS-232C Only)	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even	
	Serial COM2	Baud rate: 2400~115,2kbps	
	(RS-422/485 Only)	Connector: DSUB 9pin x 1	
		IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX	
	Ethernet	Connector: RJ-45 x 1	
Interface		NE(No Ethernet) model: cannot support Ethernet interface	
		USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m	
	USB OTG	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)	
		Connector: USB Mini-B(Side) x 1	
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)	
	Printer	Roll Printer(EPSON protocol): RS-232C	
	Screen Memory	64MB	
	Backup Memory	512KB: System buffer(10K Word), Including Alarm/Logging/Recipe	
Memory	Backup Period	Permanent	
& Others	Real Time Clock	Built in	
	Status LED	3 LEDs(Power, Operation, Link) Built in	
	Input Voltage	24Vdc(20~28Vdc)	
	Power Consumption	12W or less	
Power	Voltage Sag	24Vdc, Within 10ms	
	Insulation Resistance	500Vdc, 10MΩ	
	Operation Temperature(℃)	-10 ~ +50	
	Storage Temperature(°C)	-20 ~ +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)	
Environment	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 $3(100\Omega \text{ under})$	
	Protection Classification	IP65(Front)	
	Certification	CE, KC, UL	
	Panel Cut(mm)	121 x 95	
	External Dimension(mm)	128.6 x 102.6 x 38	
Structure	Weight(kg)	0.28	
	Cooling System	Natural air circulation	
	Case Material	PC(Resistance to flame)	







Wireless Handy Type with Egronomic Designed Hand Grip

TOPRH Wireless Model





WIFI | USB HOST 2 PORTS | USB OTG | SD CARD

CERTIFICATION







FEATURES



QUAD CORE CPU

Quad core processor supplying rapid processing speed



HIGH PERFORMANCE WIRELESS CHIP

Wireless control features extended control distance



KEY LOCK/3 POSITION SWITCH /FUNCTION KEYS/TOUCH PENCIL

6 Function keys including LED light, and touch pencil to easy operation



TOUCH DRAG FEATURE

Available touch drag to make a picture memo or scroll down to appear top-side



16M FULL COLOR

Bright and vivid full color, supports vector image library



ERGONOMIC AND REFINED DESIGN

Stable and comfortable grip



SHOCK PREVENTING BUMPER

Solid body and added silicon bumper for safer use



SUPPORT HIGH RESOLUTION

Support 1024x600 high resolution screen





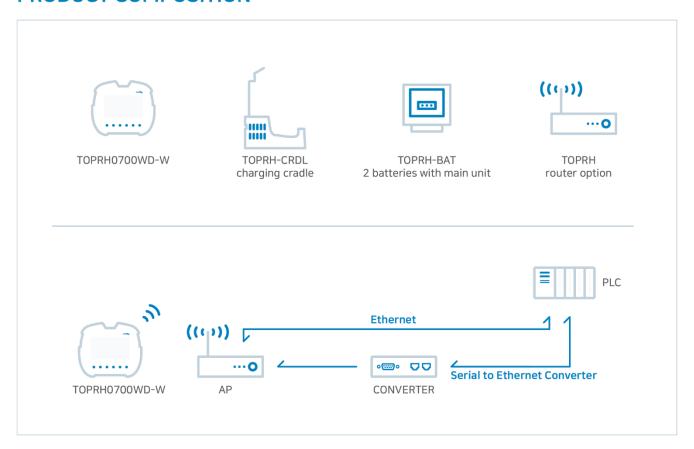


TOPRH WIRELESS / **CHARGING CRADLE** SPECIFICATIONS

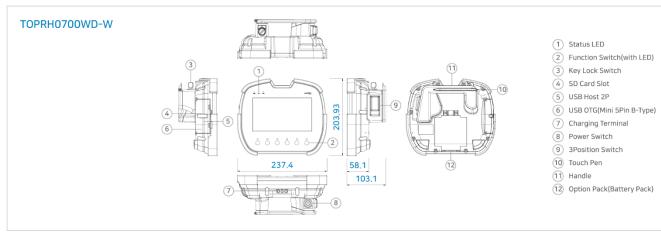
F	Functional	TOPRH0700WD-W	
	Display Type	7" TFT Color	
	Color	16M Colors	
	Display Area(mm)	154,21x85,92	
Display	Resolution(dot)	1024x600	
	Brightness Level	10 Levels(by software)	
	Backlight Type	LED	
	Backlight Life	50,000 hours	
	Touch Type	Analog resistive film	
Touch	Resolution(Cell)	1024x600	
	Touch Life	1 million times or more	
		2.4G: 2.4000GHz~2.4835GHz	
		5G: 5.150GHz~5.725GHz	
	Wireless LAN	WLAN Standard: IEEE802,11 a/b/g/n	
		Operation Range Up to 150meters in open space	
		Security: WEP, TKIP, AES, WPA, WPA2	
		USB 2.0 Compatible, Output 5Vdc/0.5A	
	USB Host	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)	
Interface		Connector: USB Type A x 2	
		USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m	
	USB OTG	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)	
	035 010	Connector: USB Mini-B x 1	
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)	
	Function Key	6Position with LED	
	Machenical Switchs	Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(1CH)	
	Power Switch	Push-Push power on-off switch built in	
	Screen Memory	128MB	
	Backup Memory	512KB: System buffer(10K Word), Including Alarm/Logging/Recipe	
Memory	Backup Period	Permanent Permanent	
& Others	Real Time Clock	Built in	
	Status LED	3 LEDs(Power, Operation, Link) Built in	
		2S-2P Li-ion 4Cells 7.2Vdc 6800mAh	
Battery	Rechargable &	Charging time 3 hours(Non-operating)	
Dattery	Extractable Battery Pack	Running time: 7 hours with wireless communication	
Power	Consumption	20W or less(In Battery Pack)	
	Operation Temperature(°C)	+10 ~ +45	
	Storage Temperature(°C)	-20 ~ +60	
	Operation Humidity(%RH)	0 ~ 90(No dew)	
	Atmosphere	No corrosive gas	
Environment	Vibration Endurance	Amplitude: 10≤F<25Hz(2G) X,Y,Z each direction(for 30 minutes)	
	Static Electricity Discharge	Connective discharge from EN61000-4-2: ±4kV	
	Shock Endurance	10G X,Y,Z each direction(for 3 times)	
	Protection Classification	IP65	
	Certification	CE, KC, UL	
	External Dimension(mm)	237x205x103	
	Weight(kg)	1.32(Including Battery Pack)	
Structure	Cooling System	Natural air circulation	
	Case Material	PC(Resistance to flame)	
	Case Material	re(nesistance to fidfile)	

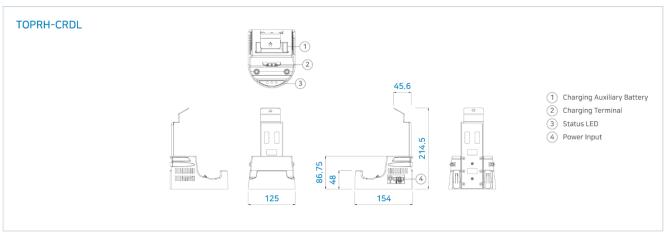
1	Functional	TOPRH-CRDL
	Input Voltage	24Vdc(20~28Vdc)
	Output Voltage	8.4Vdc
Power	Power Consumption	60W or less(with Main Body + Extra Battery Pack)
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
	Status LED	3 LEDs(Main Battery Pack, Power, Sub Battery Pack) Built in
	Operation Temperature(°C)	-10 ~ +50
	Storage Temperature(℃)	-20 ~ +60
	Operation Humidity(%RH)	0 ~ 90(No dew)
	Atmosphere	No corrosive gas
Environment	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X,Y,Z each direction(for 30 minutes)
Environment	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 $3(100\Omega \text{ under})$
	Certification	CE, KC
	External Dimension(mm)	214.5x125x154
Structure	Weight(kg)	0.6
Structure	Cooling System	Natural air circulation
	Case Material	PC(Resistance to flame)

PRODUCT COMPOSITION



DRAWING

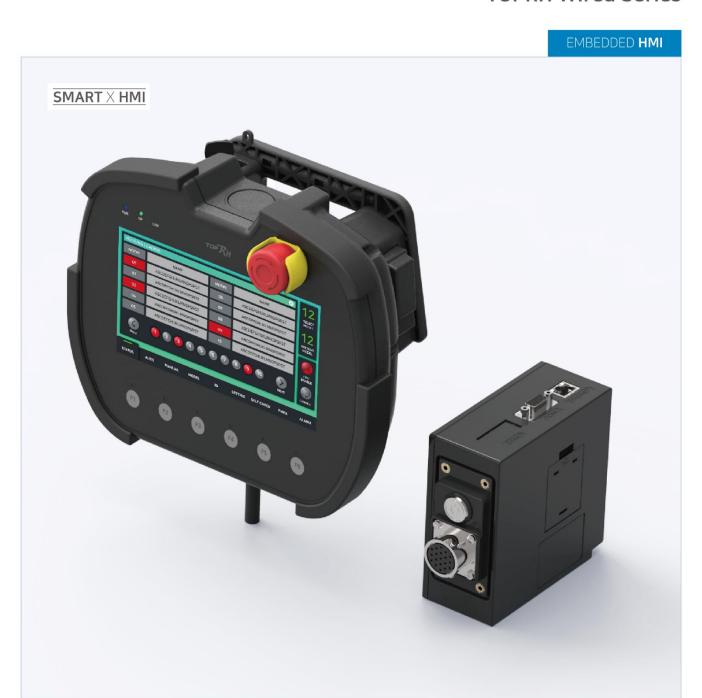






Wired Handy Type with Egronomic Designed Hand Grip

TOPRH Wired Series





SERIAL 2 PORTS | ETHERNET 1 CHANNEL | USB HOST 2 PORTS | USB OTG | SD CARD

CERTIFICATION





FEATURES



QUAD CORE CPU

Quad core processor supplying rapid processing speed



ERGONOMIC AND REFINED DESIGN

Stable and comfortable grip



FUNCTION KEY, TOUCH PENCIL

6 Function keys including LED light, and touch pencil to easy operation



TOUCH DRAG FEATURE

Available touch drag to make a picture memo or scroll down to appear top-side menu



16M FULL COLOR

Bright and vivid full color, supports vector image library





KEY LOCK/EMERGENCY /3 POSITION SWITCH

Safe use with KEY lock/Emergency /3 Position switch



SHOCK PREVENTING BUMPER

Solid body and added silicon bumper for safer use



SUPPORT HIGH RESOLUTION

Support 1024x600 high resolution screen

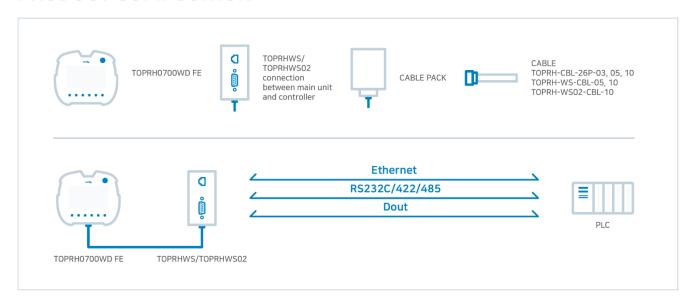


TOPRH WIRED / TOPRHWS SPECIFICATIONS

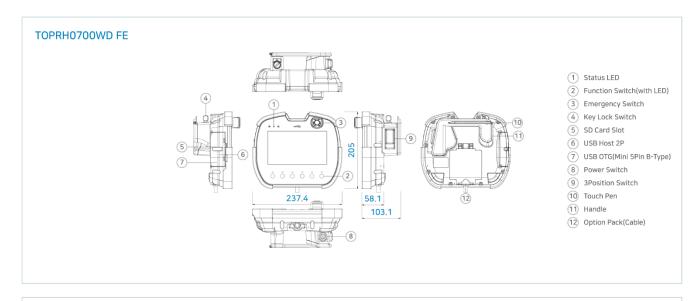
	Functional	TOPRH0700WD FE	
	Display Type	7" TFT Color	
	Color	16M Colors	
	Display Area(mm)	154,21x85.92	
Display	Resolution(dot)	1024x600	
. ,	Brightness Level	10 Levels(by software)	
	Backlight Type	LED	
	Backlight Life	50,000 hours	
	Touch Type	Analog resistive film	
Touch	Resolution(Cell)	1024x600	
	Touch Life	1 million times or more	
		RS-232C, RS-422/485 Asynchronous	
	Serial COM1	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even, Baud rate: 2400~115.2kbps	
		RS-232C, RS-422/485 Asynchronous	
	Serial COM2	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even, Baud rate: 2400~115.2kbps	
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX	
	we delited	USB 2.0 Compatible, Output 5Vdc/0.5A	
	USB Host	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)	
	33311030	Connector: USB Type A x 2	
Interface		USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m	
	USB OTG	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)	
	035010	Connector: USB Mini-B x 1	
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)	
	Function Key	6Position with LED	
	Printer	Roll Printer(EPSON protocol): RS-232C	
	Machenical Switchs	Emergency Switch 1A-2B, Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(2CH)	
	Power Switch	Push-Lock power on-off switch built in	
	Screen Memory	128MB	
		512KB: System buffer(10K Word), Including Alarm/Logging/Recipe	
Memory	Backup Memory		
& Others	Backup Period	Permanent	
	Real Time Clock	Built in	
	Status LED	3 LEDs(Power, Operation, Link) Built in	
Danna	Consumption	20W or less	
Power	Voltage Sag	24Vdc, Within 10ms	
	Insulation Resistance	500Vdc, 10MQ	
	Operation Temperature(°C)	-10 ~ +45	
	Storage Temperature(°C)	-20 ~ +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)	
Environment	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	IP4X	
	Certification	CE, KC	
	External Dimension(mm)	237x205x103	
Structure	Weight(kg)	1.1(Except Cable Pack)	
J. actarc	Cooling System	Natural air circulation	
	Case Material	PC(Resistance to flame)	

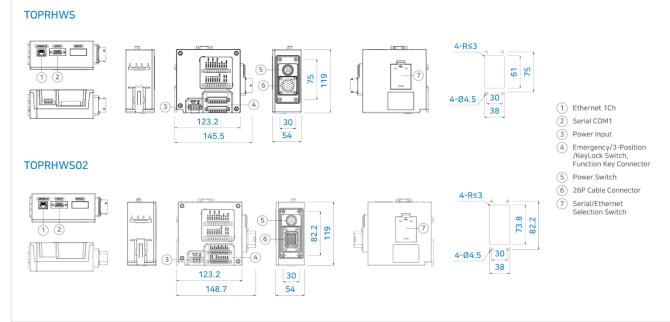
	Functional	TOPRHWS	TOPRHWS02		
		RS-232C, RS-422/485 Asy	ynchronous		
	Serial COM1	Data bit: 7/8 bits, Stop bit:	1/2 bits, Parity bit: None/Odd/Even		
		Baud rate: 2400~115.2kbp	os, Connector: DSUB 9pin x 1		
Interface	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX, Connector: RJ-45 x 1			
	Power Switch	Push-Push power on-off switch built in			
	26P Connector	To TOPRH, SRC6A21-26P	To TOPRH, 1981919-1 or 1981921-1		
	Function Connector	Emergency Switch 1A-2B, Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(2CH), DOUT(6CH)			
	Input Voltage	24Vd	lc(20~28Vdc)		
Power	Power Consumption	20W or less			
Power	Voltage Sag	24Vdc, Within 10ms			
	Insulation Resistance	500Vdc, 10MΩ			
	Operation Temperature(℃)	-10 ~ +50			
	Storage Temperature(℃)	-20 ~ +60			
	Operation Humidity(%RH)	0 ~ 90(No dew)			
	Atmosphere	No corrosive gas			
Environment	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G)	X,Y,Z each direction(for 30 minutes)		
Environment	Noise Immunity	1000Vp-	p(Pulse width 1µs)		
	Static Electricity Discharge	Connective discharg	ge from EN61000-4-2: ±4kV		
	Shock Endurance	10G X,Y,Z each direction(for 3 times)			
	Ground Connection	Class 3	3(100Ω under)		
	Certification	CE, KC			
	External Dimension(mm)	145x119x54	148x119x54		
Structure	Weight(kg)		0.3		
Sudciale	Cooling System	Natura	l air circulation		
	Case Material	PC(Resi	stance to flame)		

PRODUCT COMPOSITION



DRAWING







Miniaturized New Form Factor, Smaller and Simple

TOPRP Series



INTERFACE

SERIAL 2 PORTS | ETHERNET 2 CHANNEL | USB HOST 2 PORTS | USB OTG | SD CARD | HDMI OUT

CERTIFICATION





FEATURES



MINIATURIZED BODY FRAME

Small size able to install in a minimum space



STANDARD DIN RAIL /VESA HALL SUPPORTED

Easy installation by standard DIN rail simple assemble with monitors by standard VESA bracket(*Option)



HDMI OUTPUT

Connection with various monitors through HDMI and DP M2I's exclusive touch monitor(MDP) compatible





SUPPORTING ETHERNET 2 CHANNELS

2 Ethernet channels with different IP VNC(Remote Monitor/Control) Function Support



SUPPORTING USB HOST 2 PORTS

Connecting mouse, keyboard, USB memory, barcode scanner etc.



COMPATIBILITY WITH TOP SERIES

Quad core cpu supplying rapid processing speed

Same menu and instructions as TOP series



SUPPORTING SERIAL 2 PORTS

COM1/COM2 DSUB 9pin RS-232C, RS-422/485 support



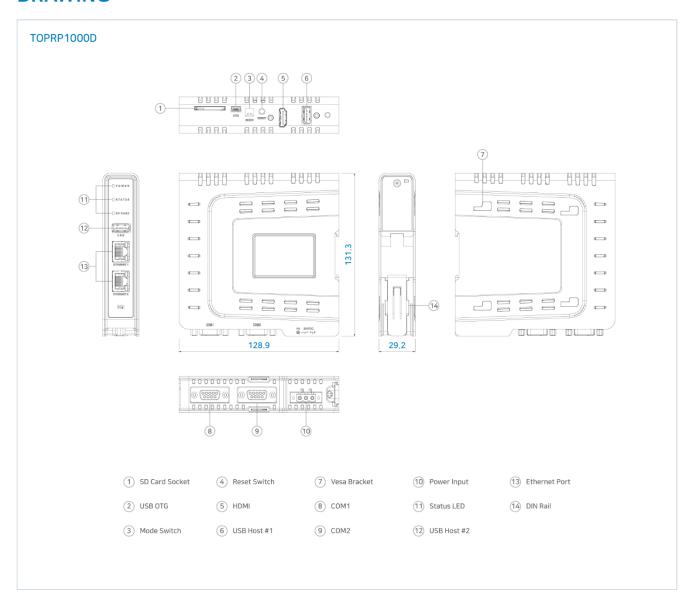
OTG USB

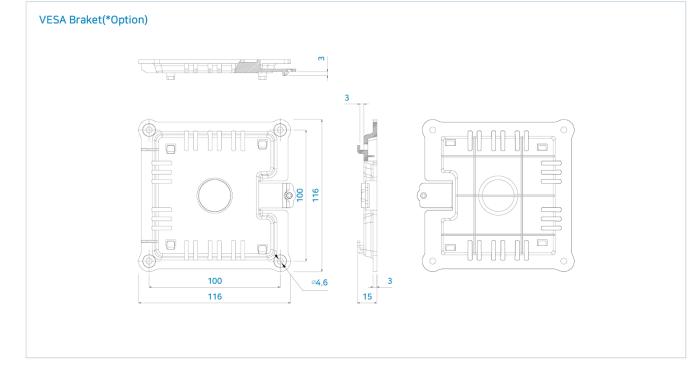
Mode switch between transmission mode (Program transfer) and host mode (Connecting USB devices as mouse, keyboard, USB memory, barcode scanner etc.)

TOPRP SPECIFICATIONS

Functional		TOPRP1000D
		RS-232C, RS-422/485 Asynchronous +5Vdc PWR
	Serial COM1	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even
	Serial Colvin	Baud rate: 2400~115.2kbps
		Connector: DSUB 9pin x 1
		RS-232C, RS-422/485 Asynchronous
	Serial COM2	Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even
	301101 301-12	Baud rate: 2400~115.2kbps
		Connector: DSUB 9pin x 1
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX
Interface		Connector: RJ-45 x 2
	HCD III	USB 2.0 Compatible, Output 5Vdc/0.5A
	USB Host	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)
		Connector: USB Type A x 2
	LICE OTC	USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m
	USB OTG	Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)
	CD C1	Connector: USB Mini-B x 1
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)
	HDMI Output	HDMI v1.4, HDMI Output, Max. Resolution: 1280x720 at 60Hz
	Printer	Connector: HDMI x 1
	Screen Memory	Roll Printer(EPSON protocol): RS-232C 128MB
	Backup Memory	512KB: System buffer(10K Word), Including Alarm/Logging/Recipe
Memory	Backup Memory Backup Period	Permanent
& Others	Real Time Clock	Built in
	Status LED	3 LEDs(Power, Operation, SD Card) Built in
	Input Voltage	24Vdc(20~28Vdc)
	Power Consumption	10W or less
Power	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
	Operation Temperature(°C)	-10 ~ +50
	Storage Temperature(°C)	-20 ~ +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)
Environment	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 less)
	Protection Classification	IP20
	Certification	CE, KC
	External Dimension(mm)	128.9x131.2x29.2
	Weight(kg)	0.23
Structure	Installation Method	Standard DIN Rail(35mm), VESA
	Cooling System	Natural air circulation
	Case Material	Plastic

DRAWING







2 Channel KVM Touch Monitor with Capacitive Touch and FHD LCD

MDP Series





INTERFACE

HDMI 2 PORTS | USB UP STREAM 2 PORTS | USB DOWN STREAM 2 PORTS

CERTIFICATION





FEATURES



2 CHANNEL TOUCH MONITOR

Industrial 2 channel touch monitor
Display channel switching by touch button



CAPACITIVE TOUCH

Clear display with capacitive touch IK7 grade tempered glass



FRONT USB PORT

Connection ports to connect Mouse, Keyboard, USB Memory, Barcode Reader



HDMI/USB INTERFACE

HDMI 2 Channels USB 2 Channels(UP 2 ports, DOWN 3 ports)



EXPLOSION-PROOF STRUCTURE

The first monitor which has explosion-proof structure



FHD LCD

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



ALUMINUM FRAME

Strong durability and refined design of aluminum body



VESA HALL ON REAR SIDE

Convenient attachment with M2I's box HMI and box PC

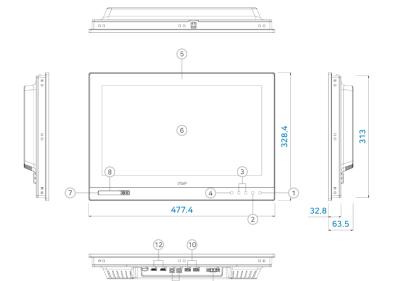
MDP SERIES_56P

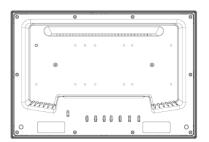
MDP SPECIFICATIONS

Functional		MDP-DC1900WD
Display	Display Type	18.5" TFT Color
	Backlight Life	50000 hour
	Aspect Ratio	16:9
	Color	16M
	Viewing Angle(H/V)	89/89/89
	Contrast Ratio	1000 : 1
	Response Time	20ms
	Brightness	350Cd/m2
	Recommend Resolution	1920 x 1080
Touch	Touch Type	Capacitive touch
Interface	HDMI Input	2 Ports
	USB Up Stream	USB Type B x 2(Rear x 2)
	USB Down Stream	USB Type A x 3(Front x 1, Rear x 2)
OSD Controls	Capacitive Touch Button	KVM/Up/Down/Menu, Select/Power
Power	Input Voltage	24Vdc(20~28Vcd)
	Power Consumption	40W or less
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
Environment	Operation Temperature(°C)	-10 ~ +50
	Storage Temperature(°C)	-20 ~ +60
	Operation Humidity(%RH)	0 ~ 90(No dew)
	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 or less)
	Protection Classification	IP65(Front)
	Certification	CE, KC
Structure	Panel Cut(mm)	463 x 314
	External Dimension(mm)	477.4 x 328.4 x 63.5
	Weight(kg)	5.0
	Cooling System	Natural air circulation
	Case Material	Aluminum + Plastic
	VESA Wall Mount Holes(mm)	100 x 100

DRAWING

MDP-DC1900WD





- 1 Power LED & Button
- 4 Display Change Button
- 7 USB Cover
- USB Downstream Port 1, 2USB Upstream Port 1, 2

- OSD MENU Button
 Up/Down Button
- 5 LCD Panel6 Touch Panel
- Power Input

8 USB Downstream Port 3

- out (12)
- 12) HDMI Input 1, 2

INDUSTRIAL HMI/SCADA SOLUTION TOP AGENCY INTRODUCTION_58P

Agency Introduction

HMI Specialized Company

More than 20 oversea sales agencies



China, Japan, Singapore, India, Turkey, Vietnam, Israel, Malaysia, Thailand, Greece, France, Iran, Jordan, etc.

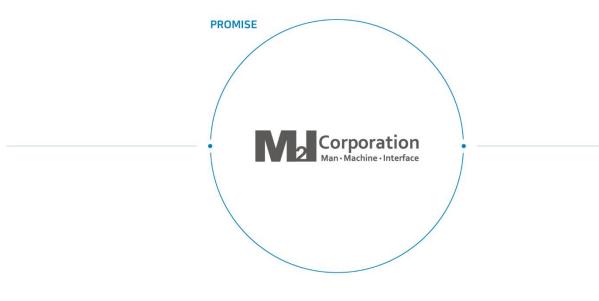
More than 36 domestic sales agencies



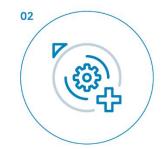
Seoul, Gyeonggi, Daejeon, Daegu, Gwangju, Ulsan, Changwon, Busan, etc.

Promise to Customer

HMI Specialized Company









PROMISE 1

Communicating(Interact) with Customer

Customer to be first, on their side

PROMISE 2

Continuous Growth

of reliability and productivity

PROMISE 3

Constant development, improvement Change to become leader of field of Smart Factory Automation

Brand New Change

For customer's satisfaction, M2I will keep communicate, to improve quality of product, M2I will keep research and develop no fear to change.

We are M2I, the HMI Specialized Company