


On Sale

	15"	12.1"	10.4"
Front USB (O)	 XTOP15TX-SD(Ex)	 XTOP12TS-SD-Ex	 XTOP10TV-ED-Ex
Front USB (X)	 XTOP15TX-SD-Ex	 XTOP12TS-SD-FN-Ex	 XTOP10TV-ED-FN-Ex



Ex nA II C T5 IP54

## Specifications

M2I has obtained **ATEX** EUDirectives, ATmospheres EXplosibles certificate which is as a world leader of standards for controlling explosive Certification safety atmospheres in the workplace **KCs** Korea Certification safety and **NEPSI** Chia, National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation

All of certifications have been satisfied in accordance with Ex nA IIC T5 IP54. So not only for the current supplying fields, but also will expand the range of application for use in potentially explosive atmospheres. As required certification for oversea market, this will develop inroads into relevant fields.

Based on the quality authorized from the world's best institution, M2I will always do our the best to fulfill the customer's needs.

		XTOP15TX-SD-Ex XTOP15TX-SD(Ex)	XTOP12TS-SD-Fn-Ex XTOP12TS-SD-Ex	XTOP10TV-ED-FN-Ex XTOP10TV-ED-Ex
Display	Display Type	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color	65,536 Color		
	Display Area(mm)	304.1x228.1	246x184.5	211.2x158.4
	Resolution(dot)	1024x768	800x600	640x480
	Brightness Level	8 Level(by software)		
	Backlight Type	LED		
	Backlight Life	50,000 hours		
	Display Font	6x6/8x8/12x12/8x16/16x16/32x32 dot, MS Windows font possible		
Touch	Touch Type	Analog resistive film		
	Resolution(Cell)	1024x768	800x600	640x480
	Touch Life	1 million times or more		
Interface	Serial COM1	<ul style="list-style-type: none"> <li>RS-232C Asynchronous</li> <li>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even</li> <li>Baud rate: 2400~115.2kbps</li> <li>Connector: PS2 6pin or DSUB 9pin 1 Channel</li> </ul>		
	Serial COM2	<ul style="list-style-type: none"> <li>RS-232C, RS-422/485 Asynchronous</li> <li>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even</li> <li>Baud rate: 2400~115.2k, 187.5kbps(MPI Direct)</li> <li>Connector: DSUB 9pin 1 Channel</li> </ul>		
	Ethernet	<ul style="list-style-type: none"> <li>IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX</li> <li>Connector: RJ-45 1 Channel</li> </ul>		—
	Option Module	Fieldbus(Profibus 및 CC-Link)		—
	USB Device	V1.1 Compatible 1 Channel, Max 5m (XTOP15TX-SD(Ex)/XTOP12TS-SD-Ex/XTOP10TV-ED-Ex Model Only)		
	USB Host	<ul style="list-style-type: none"> <li>Output 5V/0.5A, USB Storage V1.0 Compatible(FAT16/FAT32)</li> <li>USB Barcode/USB Scanner(Standard Keyboard Protocol)</li> </ul>		
	CF Card	CF Card(Type-II) Slot 1 Channel (FAT16/FAT32)		—
	Printer	Roll Printer(EPSON protocol): RS-232C, COM1 port		
Memory & Others	Screen Memory	26MB		
	Backup Memory	• 512KB: System buffer(5K Word), Including Alarm/Logging/Recipe		
	Backup Period	5 years(with rechargeable, ambient temperature 25°C)		
	Cell Type Battery	<ul style="list-style-type: none"> <li>Lithium rechargeable: Main, Charging is completed in one day (when power input), 30days backup without power input</li> <li>Coin type Lithium: Subsidiary(changeable), 2 years backup without power input</li> </ul>		
	Real Time Clock	Built in		
	Status LED	Built in		
Power	Input Voltage	DC24V(20~28V)		
	Power Consumption	15W or less	15W or less	12W or less
	Voltage Sag	24V, Within 10ms		
	Insulation Resistance	500V DC, 10MΩ		
Environment	Operation Temperature(°C)	-10 ~ +50		
	Storage Temperature(°C)	-20 ~ +60		
	Operation Humidity(%RH)	0 ~ 80(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)		
	Static Electricity Discharge	Connective discharge from EN61000-4-2: ±4kV		
	Shock Endurance	10G X,Y,Z each direction(for 3 times)		
	Surge Voltage	500V(Line-Line)		
	Ground Connection	Class 3(100Ω under)		
	Protection Classification	IP54 (Front)		
	Structure	Panel Cut(mm)	355x286	306x247
External Dimension(mm)		366x297x58	317x257.5x58	270x212x58
Weight(kg)		3.2	2.5	1.9
Cooling System		Natural air circulation		
Case Material		Polycarbonate		