



INDUSTRIAL AUTOMATION



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ABOUT US

Renu Electronics is your go-to destination for products, solutions, and services that make humans efficient. Our innovative and quality-focused offerings in Industrial Automation, IIoT, Mobility, Smart Homes, Connected Healthcare and more help drive human-technology synergies.

Strong R&D and manufacturing coupled with 31+ years of engineering expertise in Product Development, Software and Firmware Development has made us pioneers in HMIs, Programmable Logic Controllers (PLC), HMIs with built-in PLC, Industrial PCs, Web Panels, Digital and Analog Field I/Os, IoT, Smart Home and Mobility solutions, and many more.

Renu Electronics provides excellent manufacturing services that serve a diverse range of electronics manufacturers. Our state-of-the-art manufacturing facilities and equipment help us deliver quality products for our esteemed clients.

Renu Electronics helps you continuously improve your application needs; products, systems, processes, and quality to further more drive efficiency and exceed expectations. Our global and nationwide sales and Support channels are here for you to answer your needs promptly.

The Renu Electronics family, spread across the globe, is committed to strengthening, growing, and serving our business partners, vendors, investors, and employees. Do contact us for more information on www.renuelectronics.com.

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ECO SERIES PLCs

FL004-V2

Salient Features

- Din rail mounted PLC
- Transistor or Relay output
- 32 bit RISC processor
- Support for high speed Input and outputs
- 2 serial ports (RS232 / RS485)
- Provides one USB type C port
- IEC61131-3 programming environment support
- Expandable upto 8 Modules



Ordering Information

Part Number	Description
FL004-0806R-V2	8 Bi-directional digital inputs (2 single phase HSC up-to 25kHz or 8 single phase HSC up-to 10kHz or 4 Quadrature up-to 5kHz or 2 Quadrature up to 10kHz), 6 Relay-transistor type digital outputs, 2 serial communication ports, 1 USB Type C port, supports upto 8 Expansion modules
FL004-0806N-V2	8 Bi-directional digital inputs (2 single phase HSC up-to 25kHz or 8 single phase HSC upto 10kHz or 4 Quadrature up-to 5kHz or 2 Quadrature up-to 10kHz), 6 NPN-transistor type digital outputs (3 high speed outputs up-to 10kHz), 2 serial communication ports, 1 USB Type C port, supports upto 8 Expansion modules.

PLCs

Renu FlexiLogics® PLC solutions give maximum control over factory operations, which ultimately drives growth in productivity, efficiency, speed and quality. Renu FlexiLogics® PLC can monitor and record run-time data such as machine productivity or operating temperature, start and stop processes, generate alarms if a machine malfunctions, and more. FlexiLogics® products are designed for DIN rail/ Back panel Mounting. The installation of these series has been designed to be safe and easy. Renu provides PLCs with good scan times, multiple communications (USB/Serial/ Ethernet, etc.) & I/O capabilities for industrial automation suitable for complex, high speed batch processes.



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Model Comparison

Model	FL004-0806R-V2	FL004-0806N-V2
Rated Power	24 VDC (±15%), 110mA	
Input Signal	DC Input Bi-Directional	
Total Input Channels	8	
Input Isolation	Greater than 1.5 kV	
High Speed Inputs	8 x (X0 to X7)	
Single Phase Inputs	High Frequency 25kHz: 2 Pairs (X0-X1, X2- X3) Low Frequency 10kHz: 8 (X0 to X7)	
Quadrature Inputs	Frequency 10kHz: 2 (Pair X0-X1, X2-X3) or 4 Pair 5kHz (X0-X1, X2-X3, X4-X5 & X6-X7)	
Total Output Channels	6	
Output Type	Relay	NPN
Nominal Output Load Current	2A	250mA
High Speed Output	-	Up to 10kHz each (3 channels with Dir Y0-Y1, Y2-Y3, Y4-Y5)
Max Expansions Supported	8	
Communication		
Serial ports	1 x PBT RS485 (2 wire), 1 x RJ45 232	
USB Device	USB Type-C	
Environmental and Approvals		
Operating Temperature	0 to 55°C	
Storage Temperature	-20 to 85°C	
Humidity	10 to 90% (Non-Condensing)	
Shock Immunity	25g, 11ms, Half Sine wave, 3 mutually perpendicular axes	
Vibration Immunity	5-150Hz, displacement of 0.3mm (peak to peak), 3G, 3 mutually Perpendicular Axes	
Dimensions	100mm(H) x 26mm(W) x 70mm(L)	
Weight (Approx.)	250 gms	
Approvals	CE	

STANDARD SERIES PLCs

FL005-V2

Salient Features

- Din rail mounted PLC
- Transistor or Relay output
- 32 bit RISC processor
- Support for high speed Input and outputs
- 2 serial ports (RS232 / RS485), one Ethernet port
- Provides one USB type C port
- IEC61131-3 programming environment support
- Expandable upto 16 Modules



Ordering Information

Part Number	Description
FL005-0806R-V2	8 Bi-directional digital inputs (4 single phase HSC up-to 200kHz or 8 single phase HSC up-to 25kHz or 4 Quadrature up-to 200kHz), 6 Relay type digital outputs, 2 serial communication ports, 1 USB Type C port, supports up-to 16 Expansions
FL005-0808N-V2	8 Bi-directional digital inputs (4 single phase HSC up-to 200kHz or 8 single phase HSC up-to 25kHz or 4 Quadrature up-to 200kHz), 8 NPN-transistor type digital outputs, (4 high speed outputs up-to 200kHz), 2 serial communication ports, 1 USB Type C port, supports up-to 16 Expansions

Model Comparison

Model	FL005-0806R-V2	FL005-0808N-V2
Rated Power	24 VDC (±15%), 110mA	
Local Inputs/Outputs		
Input Signal	DC Input Bi-Directional	
Total Input Channels	8	
Input Isolation	Greater than 1.5 kV	
High Speed Inputs	8 x (X0 toX7)	
Single Phase Inputs	High Frequency 200kHz: 4 Pairs (X0-X1, X2- X3, X4-X5 & X6-X7), Low Frequency 25kHz: 8 (X0 to X7)	
Quadrature Inputs	Frequency 200kHz: 4 (Pair X0-X1, X2-X3, X4-X5 & X6-X7)	
Total Output Channels	6	8
Output Type	Relay	NPN
Nominal Output Load Current	2A	250mA
High Speed Output	-	Up to 200kHz each 4 channels with Dir. Y0-Y1, Y2-Y3, Y4-Y5, Y6-Y7)
Max Expansions Supported	16	
Communication		
Serial ports	1 x PBT RS485 (2 wire), 1 x RJ45 232	
USB Device	USB Type-C	
Environmental and Approvals		
Operating Temperature	0 to 55°C	
Storage Temperature	-20 to 85°C	
Humidity	10 to 90% (Non-Condensing)	
Shock Immunity	25g, 11ms, Half Sine wave, 3 mutually perpendicular axes	
Vibration Immunity	5-150Hz, displacement of 0.3mm (peak to peak), 3G, 3 mutually perpendicular axes	
Weight (Approx.)	250 gms	
Dimensions	100mm(H) x 52mm(W) x 70mm(L)	
Approvals	CE	CE, UL

STANDARD SERIES PLCs

FL055-V2

Salient Features

- Din rail mounted PLC
- Transistor or Relay output
- 32 bit RISC processor
- Support for high speed Input and outputs
- 2 serial ports (RS232 / RS485), one Ethernet port
- Provides one USB type C port
- IEC61131-3 programming environment support
- Expandable upto 16 Modules



Ordering Information

Part Number	Description
FL055-0806R-V2	8 Bi-directional digital inputs (4 single phase HSC up-to 200kHz or 8 single phase HSC up-to 25kHz or 4 Quadrature up-to 200kHz), 6 Relay type digital outputs, 2 serial communication ports, 1 USB Type C port, 1 Ethernet port, supports up-to 16 Expansions
FL055-0808N-V2	8 Bi-directional digital inputs (4 single phase HSC up-to 200kHz or 8 single phase HSC up-to 25kHz or 4 Quadrature up-to 200kHz), 8 NPN-transistor type digital outputs, (4 high speed outputs up-to 200kHz), 2 serial communication ports, 1 USB Type C port, 1 Ethernet port, supports up-to 16 Expansions

Model Comparison

Model	FL055-0806R-V2	FL055-0808N-V2
Rated Power	24 VDC (±15%), 110mA	
Local Inputs/Outputs		
Input Signal	DC Input Bi-Directional	
Total Input Channels	8	
Input Isolation	Greater than 1.5 kV	
High Speed Inputs	8 x (X0 to X7)	
Single Phase Inputs	High Frequency 200kHz: 4 Pairs (X0-X1, X2- X3, X4-X5 & X6-X7), Low Frequency 25kHz: 8 (X0 to X7)	
Quadrature Inputs	Frequency 200kHz: 4 (Pair X0-X1, X2-X3, X4-X5 & X6-X7)	
Total Output Channels	6	8
Output Type	Relay	NPN
Nominal Output Load Current	2A	250mA
High Speed Output	-	Up to 200kHz each 4 channels with Dir. Y0-Y1, Y2-Y3, Y4-Y5, Y6-Y7)
Max Expansions Supported	16	
Communication		
Serial ports	1 x PBT RS485 (2 wire), 1 x RJ45 232	
USB Device	USB Type-C	
Ethernet	10/100Mbps	
Environmental and Approvals		
Operating Temperature	0 to 55°C	
Storage Temperature	-20 to 85°C	
Humidity	10 to 90% (Non-Condensing)	
Shock Immunity	25g, 11ms, Half Sine wave, 3 mutually perpendicular axes	
Vibration Immunity	5-150Hz, displacement of 0.3mm (peak to peak), 3G, 3 mutually perpendicular axes	
Dimensions	100mm(H) x 52mm(W) x 70mm(L)	
Weight (Approx.)	250 gms	
Approvals	CE	CE, UL

Expansion Modules

Digital Expansion Modules

Model	Digital I/P	Digital O/P	Description
FLD0800-V2	8	0	8 Digital Inputs
FLD0008N-V2	0	8	8 Digital Outputs (NPN)
FLD0008R-V2	0	8	8 Digital Outputs (Relay)
FLD0808N-V2	8	8	8 Digital Inputs, 8 NPN type Outputs
FLD0808R-V2	8	8	8 Digital Inputs, 8 Relay type Outputs
FLD1600-V2	16	0	16 Digital Inputs
FLD1600R-V2	16	0	16 Digital Outputs (Relay)

Expansion Modules

Analog Expansion Modules

Model	Analog I/P	Analog O/P	Description
FLA0400-14-V2	4	0	4 Analog Inputs (0-10 VDC / 0-20mA / 4-20 mA), 14 Bit
FLA0400-16-V2	4	0	4 analog Inputs (0-10 VDC / 0-20mA / 4-20 mA), 16 Bit
FLA0400T-V2	4	0	4 TC Analog Inputs (B, R, S, E, J, K, N, T)
FLA0400R-V2	4	0	4 RTD Analog Inputs (PT100 / PT1000)
FLA0002L-V2	0	2	2 Analog Outputs (0-10VDC / 4-20mA), 12 Bit
FLA0004L-V2	0	4	4 analog Outputs (0-10VDC / 4-20mA), 12 Bit
FLA0402L-V2	4	2	4 linear inputs (0-10V) / 4-20mA / 0-20mA), 16 bits 2 analog outputs (0-10V / 4-20mA / 0-20mA), 12Bit
FLA0402U-12-V2	4	2	4 Universal Inputs (0-5V / 0-10V / 0-100mV / 0-50mV / 0-20mA / 4- 20 mA / RTD PT-100, PT-1000 / Thermocouple - B, R, S, E, J, K, N, T) 2 Analog Outputs 0-10V / 4-20mA / 0-20mA), 12 Bit
FLAD0202N-S0-V2	2	2	2 Load Cell Inputs, 2 NPN Transistor Outputs



HMI

HMI - Renu's Advanced HMIs support design of intuitive user interfaces. The FlexiPanels® touch screens are ideal solutions to control, manage and visualize the processes of individual machines and large plants. Renu FlexiPanels® touch screen and keypad-based HMI family includes products that feature high resolution, operational safety, graphical interface. You can visually display data, track production time, trends & monitor machines. Renu Flexipanel® product features alarms/warnings with reliable messaging.



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FP2 SERIES BASIC HMI

FP2-V2

Salient Features

- 4.3" and 7" Color TFT display options
- Suitable for basic applications, Trends, tasks, alarms, Data logging, Recipe Management, WebServer
- Communication Interface: RS232/RS485/Ethernet
- USB type C port for programming/Upload/Download, One USB host
- IP66 protection for front panel mounting
- IEC 61131-3 programming environment
- Approvals: CE Certified, UL Listed (Class I Div 2), RoHS compliant



Ordering Information

Part Number	Description
FP2043T-V2	4.3" TFT, 24VDC, 1 Serial port# (1 RS232, 1 RS485), 1 USB Type C, 1 USB Host
FP2043TN-V2	4.3" TFT, 24VDC, 1 Serial port# (1 RS232, 1 RS485), 1 USB Type C, 1 USB Host, 1 Ethernet Port
FP2070T-V2	7" TFT, 24VDC, 2 Serial ports (RS232 / RS485), 1 USB Type C, 1 USB Host
FP2070TN-V2	7" TFT, 24VDC, 2 Serial ports (RS232 / RS485), 1 USB Type C, 1 USB Host, 1 Ethernet Port

Model Comparison

Model	FP2043T-V2	FP2043TN-V2	FP2070T-V2	FP2070TN-V2
Size	4.3" WQVGA Color TFT		7" WVGA Color TFT	
Resolution	480 x 272 pixels		800 x 480 pixels	
Touch Screen	Analog Resistive			
CPU and Power				
CPU	32-bit RISC processor			
RAM	16MB			
Power Supply	24VDC (+20%, -15%)			
RTC	Built-in			
Communication				
Serial	1 x RS232, RS485 [#]		2 x RS232/RS485	
USB Device	1x USB type C			
USB Host	1x 2.0			
Ethernet	NA	1x 10/100Mbps	NA	1x 10/100Mbps
Environment and Approvals				
Operating Temperature	0°C to 60°C*			
Storage Temperature	-20°C to 85°C			
Humidity	10 to 90% (Noncondensing)			
Shock	IEC 60068-2-27, 25g, 11ms, 6 shocks per axis, total 18 shocks (X, Y, Z)			
Vibration	5~150Hz, 3g peak (X, Y, Z)			
Protection	IP66 for front panel mounting			
Approvals	CE, UL(Class 1 Div.2), RoHS			

[#]FP2043 consists of one DB9 port that supports RS232 and RS485 levels on different pins.

"Y" type cable can be used for separate RS232 and RS485 levels simultaneously

*Note: For UL, operating temperature range is 0° to 50°C

FP4 ADVANCED HMI

Salient Features

- 4.3", 7", 10.1", 12.1" and 15.1" Color TFT display options
- Suitable for Complex applications, Trends, Alarms, Data logging, Recipe Management
- In built VNC Server, Email , FTP Host and Client, MQTT, WebServer
- Communication Interface: RS232/RS485/Ethernet
- USB type C port for programming/Upload/Download, One USB host, one micro SDHC port
- eMMC: 4GB, RAM: 512MB
- IEC 61131-3 programming environment
- IP66 protection for front panel mounting
- Approvals: CE Certified, UL Listed (Class I Div 2), RoHS compliant



Ordering Information

Part Number	Description
FP4043TN	4.3" Resistive Touch, 4GB memory, 512MB RAM, Built-in RTC, 1xRS232/RS485, 1x USB type C, 1xUSB Host port, 1x10/100 Mbps RJ45 Ethernet port, 1xmicroSDHC, 24VDC
FP4070TN	7" Resistive Touch, 4GB memory, 512MB RAM, Built-in RTC, 2xRS232/RS485, 1x USB type C, 1xUSB Host port, 1x10/100 Mbps RJ45 Ethernet port, 1xmicroSDHC, 24VDC
FP4101TN	10.1" Resistive Touch, 4GB memory, 512MB RAM, Built-in RTC, 2xRS232/RS485, 1x USB type C, 1xUSB Host port, 1x10/100 Mbps RJ45 Ethernet port, 1xmicroSDHC, 24VDC
FP4121TN	12.1" Resistive Touch, 4GB memory, 512MB RAM, Built-in RTC, 2xRS232/RS485, 1x USB type C, 1xUSB Host port, 1x10/100 Mbps RJ45 Ethernet port, 1xmicroSDHC, 24VDC
FP4151TN-V2	15" Resistive Touch, 4GB memory, 512MB RAM, Built-in RTC, 2xRS232/RS485, 1x USB type C, 1xUSB Host port, 1x10/100 Mbps RJ45 Ethernet port, 1xmicroSDHC, 24VDC

Model Comparison

Model	FP4043 Series	FP4070 Series	FP4101 Series	FP4121 Series	FP4151 Series
Part	FP4043TN	FP4070TN	FP4101TN	FP4121TN	FP4151TN-V2
Size	4.3" WQVGA Color TFT	7" WVGA Color TFT	10.1" WSVGA Color TFT	12.1" SVGA Color TFT	15" XGA Color TFT
Resolution	480 x 272 pixels	800 x 480 pixels	1024 x 600 pixels	800 x 600 pixels	1024 x 768 pixels
Touch Screen	Analog Resistive				
CPU and Power					
CPU	32-bit RISC processor				
eMMC	4 GB				
RAM	512 MB				
Power Supply	24 VDC (±15%)				
Isolation	Yes				
RTC	Built-in				
Communication					
Serial	1X RS232 / RS485#	2x RS232 / RS485			
USB Device	1x USB type C				
USB Host	1x 2.0				
Ethernet	1x 10/100 Mbps				
SD Card Slot	1x 10/100 microSDHC				
Environment & Approvals					
Operating Temperature	-10~60°C*				
Storage Temperature	-20~85°C				
Humidity	10~90% non-condensing				
Shock	25g, 11ms, 6 shocks per axis, Total 18 shocks (X, Y, Z)				
Vibration	5~150 Hz, 3g peak (X, Y, Z)				
Protection	IP66 for front panel mounting				
Approvals	CE, UL Class I Div 2				

*FP4043 consists of one DB9 port that supports RS232 and RS485 levels on different pins. "Y" type cable can be used for separate RS232 and RS485 levels simultaneously.



HMI with I/O

Renu Electronics offers industrial FlexiPanels® HMI with Digital and Analog I/Os. Renu's Flexipanel® HMI with built-in as well as expandable I/O series combines PLC functionality with an operator interface. You can quickly develop fast, consistent, standardized graphical interfaces with the benefits of control programming using a single software. With space savings where separate PLC is not required, you also get I/O for sensors, switches, lamps, lights or valves. Use the pulse output to control speed and motion. Renu's programmable HMI with I/Os allows for exchanging data between the devices. It also supports various communication protocols to communicate with external devices. Multiple I/O options improve machine control and monitoring, increase process efficiency, and reduce overheads.



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BASIC HMI WITH I/O SERIES

FP2-E

Salient Features

- 4.3" and 7" Color TFT display options
- Pluggable I/O Module Support
- Suitable for basic applications, trending, tasks, alarms, Data logging, IEC 61131-3 programming environment
- RAM: 16MB
- Approvals: CE, UL Class I Div 2, RoHS, IP66



Ordering Information

Part Number	Description
FP2043T-E	4.3" TFT, 24VDC, 1 Serial port# (1 RS232, 1 RS485), 1 USB Device, 1 USB Host, 1 Pluggable I/O Module
FP2043TN-E	4.3" TFT, 24VDC, 1 Serial port# (1 RS232, 1 RS485), 1 USB Device, 1 USB Host, 1 Ethernet, 1 Pluggable I/O Module
FP2070T-E	7" TFT, 24VDC, 2 Serial ports (RS232 / RS485), 1 USB Device, 1 USB Host, 3 Pluggable I/O Modules
FP2070TN-E	7" TFT, 24VDC, 2 Serial ports (RS232 / RS485), 1 USB Device, 1 USB Host, 1 Ethernet, 3 Pluggable I/O Modules

Model Comparison

Model	FP2043T-E	FP2043TN-E	FP2070T-E	FP2070TN-E
Size	4.3" WQVGA Color TFT		7" WVGA Color TFT	
Resolution	480 x 272 pixels		800 x 480 pixels	
Touch Screen	Analog Resistive			
CPU and Power				
CPU	32-bit RISC processor			
RAM	16MB			
Power Supply	24VDC (±15%)			
RTC	Built-in			
Communication				
Serial	1 x RS232, RS485*		2 x RS232/RS485	
USB Device	1x USB type C			
USB Host	1x 2.0			
Ethernet	NA	1x 10/100Mbps	NA	1x 10/100Mbps
Pluggable I/O	1		3	
Environment & Approvals				
Operating Temperature	0°C to 60°C*			
Storage Temperature	-20°C to 85°C			
Humidity	10 to 90% (Noncondensing)			
Shock	IEC 60068-2-27, 25g, 11ms, 6 shocks per axis, total 18 shocks (X, Y, Z)			
Vibration	5~150Hz, 3g peak (X, Y, Z)			
Protection	IP66 for front panel mounting			
Approvals	CE, UL(Class 1 Div.2), RoHS Compliant			

*FP2043xx consists of one DB9 port that supports RS232 and RS485 levels on different pins.

"Y" type cable can be used for separate RS232 and RS485 levels simultaneously

*Note: For UL, operating temperature range is 0° to 50°C

BASIC HMI WITH I/O SERIES

FP4-E

Salient Features

- 4.3", 7" and 10.1" Color TFT display options
- Pluggable I/O Module Support
- Suitable for Complex applications, trending, alarms, logging, IEC 61131-3 programming environment
- Recipe Management, VNC Server, Email, MQTT
- eMMC: 4GB, RAM: 512MB
- Approvals: CE, UL Class I Div 2, IP66



Ordering Information

Part Number	Description
FP4043TN-E	4.3" TFT, 24VDC, 1 Serial port# (1 RS232, 1 RS485), 1 USB Device, 1 USB Host, 1 Ethernet Port, 1 Pluggable I/O Module
FP4070TN-E	7" TFT, 24VDC, 2 Serial ports (RS232 / RS485), 1 USB Device, 1 USB Host, 1 Ethernet Port, 3 Pluggable I/O Modules
FP4101TN-E	10.1" TFT, 24VDC, 2 Serial ports (RS232/RS485), 1 USB device, 1 Ethernet Port, 1 USB Host, 5 Pluggable I/O Modules

Model Comparison

Models	FP4043TN-E	FP4070TN-E	FP4101TN-E
Size	4.3" Color TFT, WQVGA	7" Color TFT, WVGA	10.1" WVGA Color TFT
Resolution	480 x 272 pixels	800 x 480 pixels	1024 x 600 pixels
Touch Screen	Analog Resistive		
CPU and Power			
CPU	32-bit RISC processor		
eMMC	4GB		
RAM	512MB		
Power Supply	24VDC (±15%)		
RTC	Built-in		
Communication			
Serial	1 x RS232, RS485 [#]	2 x RS232 / RS485	2x RS232 / RS485
USB Device	1x USB type C		
USB Host	1x 2.0		
SD Card	1x microSDHC supported		
Ethernet	1x 10/100Mbps		
Pluggable I/O	1	3	5
Environment & Approvals			
Operating Temperature	-10°C to 60°C*		
Storage Temperature	-20°C to 85°C		
Humidity	10 to 90% (Noncondensing)		
Shock	IEC 60068-2-27, 25g, 11ms, 6 shocks per axis, total 18 shocks (X, Y, Z)		
Vibration	5~150Hz, 3g peak (X, Y, Z)		
Protection	IP66 for front panel mounting		
Approvals	CE, UL Class I Div.2 & RoHS		

[#]FP4043xx consists of one DB9 port that supports RS232 and RS485 levels on different pins.

"Y" type cable can be used for separate RS232 and RS485 levels simultaneously

*Note: For UL, operating temperature range is 0° to 50°C

FP2 WITH LOCAL AND PLUGGABLE I/Os

Salient Features

- 4.3" and 7" Color TFT options
- Local I/O and Pluggable I/O Module Support
- Suitable for basic applications, trending, tasks, alarms, logging, IEC 61131-3 programming environment
- Flash: 16MB, RAM: 16MB
- Approvals: CE, UL Class I Div 2, IP66
- Available with built-in LTE option



Ordering Information

Part Number	Description
FP2043TN-LE1208P-A0402U	4.3" TFT, 24VDC, 1 Serial port (RS232 / RS485), 1 USB Type C, 1 USB Host, 12 Digital Inputs (4 High Speed Inputs 200kHz), 8 PNP Outputs, 4 Analog Inputs (2 V/I and 2 RTD/TC), & 2 Analog Outputs (V & I), 1 Pluggable I/O Modules
FP2043TN-LE1208N-A0402U	4.3" TFT, 24VDC, 1 Serial port (RS232 / RS485), 1 USB Type C, 1 USB Host, 12 Digital Inputs (4 High Speed Inputs 200kHz), 8 NPN Outputs, 4 Analog Inputs (2 V/I and 2 RTD/TC), & 2 Analog Outputs (V & I), 1 Pluggable I/O Modules
FP2070TN-LE2016RP-A0402U	7" TFT, 24VDC, 2 Serial ports (RS232 / RS485), 1 USB Type C, 1 USB Host, 20 Digital Inputs (4 High Speed Inputs 200kHz), 16 Digital Outputs (12 Relay & 4 PNP (200kHz)), 4 Analog Inputs (2 V/I and 2 RTD/TC), & 2 Analog Outputs (V & I), 3 Pluggable I/O Modules

Model Comparison

	FP2043 with Local & Pluggable I/O		FP2070 with Local & Pluggable I/O
Model	FP2043TN-LE1208P-A0402U	FP2043TN-LE1208N-A0402U	FP2070TN-LE2016N-A0402U
Size	4.3" WQVGA Color TFT		7" WVGA Color TFT
Resolution	480 x 272 pixels		800 x 480 pixels
Touch Screen	Analog Resistive		
CPU and Power			
CPU	32-bit RISC processor		
Flash	16MB		
RAM	16MB		
Power Down Save	20kB		
Power Supply	24VDC (+20%, -15%)		
RTC	Built-in		
Communication			
Serial	1 x RS232/ RS485		2 x RS232 / RS485
USB Device	1x USB type C		
USB Host	1x 2.0		
Ethernet	1x 10/100Mbps		
Local IOs			
Digital Inputs	12 Digital Inputs		20 Digital inputs
High Speed Inputs	Four 200kHz		
Digital Outputs	8 PNP outputs	8 NPN outputs	12 Relay outputs 4 PNP outputs
Analog Inputs	2 Voltage/Current Inputs, 2 RTD/TC Inputs		
Analog Outputs	2 Voltage/Current Outputs		
Pluggable IOs	1		3
Environment & Approvals			
Operating Temperature	-10°C to 60°C		
Storage Temperature	-20°C to 85°C		

Expansion Modules

Digital and Analog Expansion Modules

Model	Digital I/P	Digital O/P	Analog I/P	Analog O/P	Description
FPEM-1210RP-A0201L-V2	12	10 (2 PNP Type, 8 Relay Type)	2	1	12 Bi-directional type inputs, 10 Digital outputs - 2 PNP type transistor outputs and 8 Relay type outputs. 2 Analog inputs & 1 Analog output
FPEM-1210RP-V2	12	10	-	-	12 Bi-directional type inputs, 10 Digital outputs - 2 PNP type transistor outputs and 8 Relay type outputs.
FPEM-1212RP-A0200L-V2	12	12	2	0	12 Bi-directional type inputs, 12 Digital outputs - 2 PNP type transistor outputs and 10 Relay type outputs. 2 Analog inputs
FPEM-1212RP-V2	12	12 (2 PNP Type, 10 Relay Type)	-	-	12 Bi-directional type inputs, 12 Digital outputs - 2 PNP type transistor outputs and 10 Relay type outputs.
FPEM-1210P-A0201L-V2	12	10	2	1	12 Bi-directional type inputs, 10 PNP type transistor outputs. 2 Analog inputs & 1 Analog output
FPEM-1212P-A0200L-V2	12	12	2	0	12 Bi-directional type inputs, 12 PNP type transistor outputs. 2 Analog inputs
FPEM 1616P-V2	16	16	-	-	16 Bi-directional type inputs, 16 PNP type transistor outputs
FPEM 1614RP-V2	16	14	-	-	16 Bi-directional type inputs, 14 Digital outputs - 2 PNP type transistor outputs and 12 Relay type outputs.
FPEM-1210P-V2	12	10	-	-	12 Bi-directional type inputs, 10 PNP type transistor outputs
FPEM-1212P-V2	12	12	-	-	12 Bi-directional type inputs, 12 PNP type transistor outputs.

Note:

- FPEM-V2 Series only compatible with FP2xxxTx-E/ FP4xxxTx-E Series]
- FPEM-V2 series do not support HSC-PWM output (for now).
- Firmware is upgradable for the FPEM-V2 series. Moreover, after the Firmware update, HSC-PWM output will support this series.

Please contact our Customer Support team for more details.

Web Panels

Renu's industrial web panels let you run industrial applications in a browser from a web server running on a PLC, VFD, a Desktop PC or on Cloud. You can choose 4.3", 7" and 10.1" TFT web panels with support for web servers (such as Codesys, Ignition SCADA, Node-RED, SpiderControl, Apache#, etc.). With latest processors, memory and connectivity options, these thin clients provide unbeatable flexibility to support plant operations remotely. These industrial web panels are CE, UL, RoHS, IP66 certified.



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WP2 WEB PANEL HMIs

WP2 Lite (New)

Salient Features

- Thin Client with an inbuilt Micro browser ready to connect to a remote web server on the network
- 4.3", 7" and 10.1" Color TFT display options
- Run a wide variety of Industrial Web Applications on board the 32-bit ARM Cortex-M7 device.
- Easily installable in complex Industrial Environments
- Easily configurable with a host of features like screen rotation, automatic scaling, screen timeout and many more
- Approvals: CE, UL Class I Div 2, IP66



Ordering Information

Part Number	Description
WP2043TN Lite	4.3" TFT Web Panel, 24VDC, 1 Ethernet (10/100Mbps)
WP2070TN Lite	7" TFT Web Panel, 24VDC, 1 Ethernet (10/100Mbps)
WP2101TN Lite	10.1" TFT Web Panel, 24VDC, 1 Ethernet (10/100Mbps)

Model Comparison

Model	WP2043TN Lite	WP2070TN Lite	WP2101TN Lite
Display Size	4.3” Color TFT, WQVGA	7” Color TFT, WVGA	10.1” Color TFT, WSVGA
Resolution	480 x 272 pixels	800 x 480 pixels	1024 x 600 pixels
Colors	16M		
Touch Screen	Analog Resistive		
CPU and Power			
CPU	32-bit ARM Cortex-M7		
RAM	32MB		
Power Supply	24VDC (+20%, -15%)		
Communication Interfaces			
Ethernet	1x 10/100Mbps		
OSK	Yes		
Environment & Approvals			
Operating Temperature	0°C to 50°C		
Storage Temperature	-20°C to 85°C		
Humidity	10 to 95% (Noncondensing)		
Shock	IEC 60068-2-27, 25g, 11ms, 6 shocks per axis, total 18 shocks (X, Y, Z)		
Vibration	5~150Hz, 3g peak (X, Y, Z)		
Protection	IP66 for front panel mounting		
Approvals	CE, UL(Class 1 Div.2), RoHS		
Features			
Supported Web Servers#	Spider Controls, Codesys2.x, Codesys3.x		

[#]Codesys, SpiderControl etc. are registered trademarks of their respective owners and Renu electronics does not claim any rights over them

WP6 WEB PANEL HMIs

WP6 Plus

Salient Features

- New improved web panel with Google's Chromium based web browser[#]
- 4.3", 7" and 10.1" TFT display options
- HTML5 compatible web browser
- Works with any webserver of your choice (including Codesys, Ignition SCADA, Node-RED, Apache[#] etc)
- 2xARM Cortex-A9 with GPU 2D / GPU 3D support
- Complete browser functionality
- Approvals: CE, UL, RoHS, IP66



Ordering Information

Part Number	Description
WP6043TN Plus	4.3" TFT Web Panel
WP6070TN Plus	7" TFT Web Panel
WP6101TN Plus	10.1" TFT Web Panel

[#]Codesys, Ignition Scada, Google, Chromium, Apache, Node-RED etc are registered trademarks of their respective owners and Renu electronics does not claim any rights over them

Model Comparison

Model	WP6043TN Plus	WP6070TN Plus	WP6101TN Plus
Display Size	4.3" TFT, Web Panel	7" TFT, WVGA	10.1"TFT, Web Panel
Resolution	480 x 272 pixels	800 x 480 pixels	1024 x 600 pixels
Colors	16M		
Touch Screen	Analog Resistive		
CPU and Power			
CPU	2xARM Cortex-A9 upto 1GHz with GPU 2D / GPU 3D support		
RTC	Built-in		
eMMC	4 GB		
RAM	1 GB		
Power Supply	24 VDC (± 15%)		
Isolation	Yes		
Interfaces			
USB Device	1x USB type C		
USB Host	1x 2.0		
Ethernet	1x 10/100 Mbps		
Environment & Approvals			
Operating Temperature	0~50°C		
Storage Temperature	-20~85°C		
Humidity	10~90% non-condensing		
Shock	25g, 11ms, 6 shocks per axis, Total 18 shocks (X, Y, Z)		
Vibration	5~150 Hz, 3g peak (X, Y, Z)		
Protection	IP66 for front panel mounting		
Approvals	CE, UL & ROHS		
Features			
Supported Objects	HTML 5 Style, SVG, Objects		
Browser	Chromium based browser version 75 [#]		
Operating System	Linux Yocto		

[#]Codesys, Ignition Scada, Google, Chromium, Apache, Node-RED etc are registered trademarks of their respective owners and Renu electronics does not claim any rights over them



Field I/O

Renu's Field I/O's expand PLC/Scada capabilities. Field I/O modules are available with field input/outputs as digital or analog. They provide features such as user defined address, baud rate and parity through software, indication for diagnostics, power and communications and easy installation using DIN rail mounting.



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FIELD I/O MODULES : FIOA UNITS

Field Inputs/Outputs Analog

Salient Features

- Low cost compact Analog Input module with DIN railmounting
- Accept Current (4-20 mA) and Voltage (0-10 VDC) inputs
- 12 bit resolution
- User definable Address, Baud rate and Parity through DIP Switches
- High Speed Modbus RTU (Slave) communication
- 2 wire RS485 port provided on pluggable terminal block Can be multi dropped as Modbus Slave on RS485 Network
- LED Indication for Power and Communication
- Very simple to configure through switches. No programming Software needed.
- CE marked with optional UL certification



Ordering Information

Part Number	Description
FIOA-0800-L-B	Field I/O Module Modbus RTU Slave, 8xAI[V(0-10V),mA(4-20mA)] 12 bit, 2 wire RS485 PBT
FIOA-0800-RP-B	Field I/O Module Modbus RTU Slave, 8xAI(RTD PT100 inputs) 12 bit Linear inputs, 2 wire RS485 PBT

FIELD I/O MODULES : FIOA-0402-U-B

Field Inputs/Outputs Analog

Salient Features

- Low cost compact Analog I/O modules with DIN rail mounting
- Programmable inputs allow same modules to accept RTD, Thermocouple, mA, mV and Volts
- 12 bit/16 bit resolution
- 4 universal analog inputs and 2 analog outputs
- High Speed Modbus RTU (Slave) communication
- User definable Address, Baud rate and Parity through Software Configuration
- 2 wire RS485 port provided on pluggable terminal block Can be multi dropped as Modbus Slave on RS485 Network
- Indication for Diagnostics, Power and Communication
- Programming through standard Prizm software FREE!!
- CE marked with optional UL certification



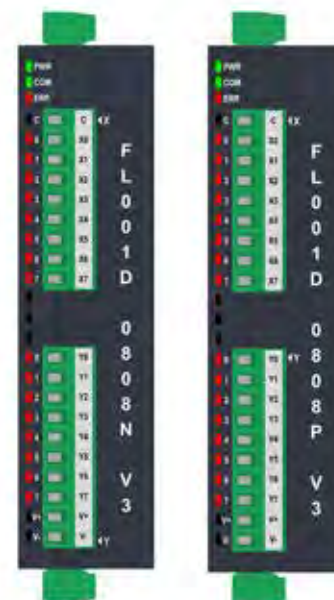
Ordering Information

Part Number	Description
FIOA-0402-U-B	Field I/O Module Modbus RTU Slave, 4xAI [mVolt(0-100mV),V(0-10V,0-5V),mA(0-20mA), RTD, T/C(J,K,E,R,S,B,N,T)], 2xAO(4-20mA/0-10VDC) 12 bit Universal inputs, 1xRJ45 port RS232/RS485, 2 wire RS485 PBT
FIOA-0402-U-16-B	Field I/O Module Modbus RTU Slave, 4xAI [mVolt(0-100mV),V(0-10V,0-5V),mA(0-20mA), RTD, T/C(J,K,E,R,S,B,N,T)], 2xAO(4-20mA/0-10VDC) 16 bit Universal inputs, 1xRJ45 port RS232/RS485, 2 wire RS485 PBT

FIELD I/O MODULES: FL001D UNITS

Salient Features

- Low cost compact Digital I/O modules with DIN rail mounting
- 2 wire RS 485 port provided on pluggable terminal block
- User definable Address, Baud rate and Parity through DIP Switch
- High Speed Modbus RTU (Slave) communication
- LED indication for each Input and Output, COM Port and Power ON
- No configuration software required
- Relay and Transistor outputs available
- CE marked with optional UL certification



Ordering Information

Part Number	Description
FL001D-0808R-V3	Field I/O Module Modbus RTU Slave, 8 DI (bi-directional), 8 Relay DO, 2 wire RS485 port
FL001D-0808P-V3	Field I/O Module Modbus RTU Slave, 8 DI (bi-directional), 8 PNP DO, 2 wire RS485 port
FL001D-0808N-V3	Field I/O Module Modbus RTU Slave, 8 DI (bi-directional), 8 NPN DO, 2 wire RS485 port
FL001D-0404R-V3	Field I/O Module Modbus RTU Slave, 4 DI (bi-directional), 4 Relay DO, 2 wire RS485 port
FL001D-0404P-V3	Field I/O Module Modbus RTU Slave, 4 DI (bi-directional), 4 PNP DO, 2 wire RS485 port
FL001D-0404N-V3	Field I/O Module Modbus RTU Slave, 4 DI (bi-directional), 4 NPN DO, 2 wire RS485 port
FL001D-0016R-V3	Field I/O Module Modbus RTU Slave, 16 Relay DO, 2 wire RS485 port
FL001D-0016P-V3	Field I/O Module Modbus RTU Slave, 16 PNP DO, 2 wire RS485 port
FL001D-0016N-V3	Field I/O Module Modbus RTU Slave, 16 NPN DO, 2 wire RS485 port
FL001D-0008R-V3	Field I/O Module Modbus RTU Slave, 8 Relay DO, 2 wire RS485 port
FL001D-1600-V3	Field I/O Module Modbus RTU Slave, 16 DI (bi-directional), 2 wire RS485 port

FIELD I/O MODULES: FIOD UNITS

Field Inputs/Outputs Digital

Salient Features

- Low cost compact 3 phase Energy measurement module
3 phase voltage input up to 300 Vrms (Line-Neutral) and current input up to 5 A can be measured
- Measures Voltage, Current, Frequency, Active Power, Reactive Power, True Power, Average Power and Power Factor
- Facility for 4 bi-directional digital inputs and 4 digital NPN outputs (open collector) High Speed Modbus RTU (Slave) communication
- 2 wire RS-485 Communication port (isolated) on pluggable terminal block
- Baud rate and Parity through convenient DIP Switches
- LED indication for each Input and Output, COM port Power ON
- No configuration software required



Ordering Information

Part Number	Description
FIDOD-EN-0404-C	Field I/O Module Modbus RTU Slave, 4xDI(bi-directional), 3xAI(300Vrms 3ph AC inputs), 4 NPN DO 2 wire RS485 PBT



Gateway

Renu's Gateways for industrial automation serve as a bridge between different communication systems, such as those used in automation control systems, PLCs, DCS, PI controllers, sensors, actuators, and other industrial devices enabling seamless communication and data transfer on various networks. put/outputs as digital or analog. They provide features such as user defined address, baud rate and parity through software, indication for diagnostics, power and communications and easy installation using DIN rail mounting.



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GATEWAY: GWY920- LTE-S2

Salient Features

- These devices can collect data using Modbus RTU protocol (for LTE) and RS232 over Serially (For LTE-S1 & LTE-S2) & send it to centralized servers through GPRS/LTE using TCP/IP or HTTP.
- The gateways in this series also support communication via MQTT over TCP/IP.
- User can configure it via windows base desktop “GWY-920 Utility” application software.
- Configurable to multiple slave addresses, selectable address range Data sending interval.
- Offline data storage function available.
- GWY-920LTE-S2: Globally supported GSM module.



Ordering Information

Part Number	Description
GWY920- LTE-S2	Globally supported GSM module. support communication via MQTT over TCP/IP. Configurable to multiple slave addresses, selectable address range Data sending interval. Offline data storage function available

Model Description

Model	Description
Power (Base)	10VDC-32VDC
Power Consumption	24V @180mA (Wattage: 4.32W).
Processor	32 bit RISC processor
LEDs	5
Offline Data Storage	Up to 3000 Packet
Communication Protocol	Modbus RTU Master (For LTE), RS232 Serial(For LTE-S1 & LTE-S2)
Transmit Protocol	TCP/IP, HTTP, MQTT
Data Packet Sending Interval	User configurable
GSM/GPRS Connectivity	4G/LTE backward compatibility to 2G/3G, External GSM & GPS Antenna
SIM Interface	Micro SIM support
Product Dimensions	100(H) X 52(W) X 70(D)mm
Communication	
Serial Ports	1 x RS485 (PBT), for LTE 1 X RS232 (PBT), For LTE-S2 Model
Supported Protocol	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
USB Device	1 x Micro USB (Device) for upload/download and Device configuration



UNIVERSAL SIGNAL CONVERTER

RS232 / CMOS TO RS422 / RS485

Salient Features

- DIN rail or panel mounted compact Converter
- Port powered or external powered design
- Isolation of power and communication ports
- Automatic detection of communication baud rate
- Automatic control of transceiver direction
- Easy to use plug and play device
(no configuration software required)
- CE / UL certification



Ordering Information

Part Number	Description
CNV-01	CNV-01 is a port-powered (line-powered: RXD+RTS+CTS) or externally powered. This unit takes less than 4mA to operate plus load current.
CNV-02-B	The unit has DB9 female connector on RS232 / CMOS side and PBT on RS422 / RS485 side. RS485 port has 4-wire with signal ground system. Also support 2-wire RS485 communication with signal ground system.

GATEWAY (PROTOCOL CONVERTERS)

- Programmable Industrial Protocol Converters
- Make your Serial Device such as PLC/ Drive / DCS / PID Controller / Energy Meter, etc. compatible with other Serial Devices
- LonWorks Network
- CAN Open / CAN Network
- Profibus Network
- Ethernet Network (Modbus TCP/IP)
- GSM Network
- CE and UL certified
- Windows® based Common Programming Software for the entire Gateway family....Free!!



GWY-00-B



For more details
SCAN HERE



GWY-300



For more details
SCAN HERE



Model Description

Model	CNV-01 and CNV-02-B
Power	+ 24 VDC ±10%, 2 W max.
Distance	Externally powered units transmit data up to 4000 ft (1200 m). Less with port-powered model.
Operating Temperature	0°C to 60°C
Storage Temperature	- 40°C to 90°C
Humidity	10% to 90% (Non-Condensing)
Communication Ports	Two ports (RS232 / CMOS, RS422 / RS485)
Data Rates	Up-to 115.2 kbps
Dimensions	51mm (W) X 101mm (H) X 40mm (D)
Mounting	DIN rail mounting or Back Panel
Weight	125 gms approximately

ANDROID PANEL 6

Experience unparalleled connectivity and performance on Industrial-grade Android Panels. The rugged fan-less cost-effective design in high brightness IP66 front panel includes an antenna and is useful for local/remote visualization and data logging applications. Apart from connectivity to IIoT/IoT applications, and operator control, it also provides compatibility with SCADA Apps. With connectivity options, Wi-Fi, USB, Bluetooth, and Ethernet, and the possibility to add a camera, bluetooth speaker, microphone the applications for this Android panel can be unlimited...



ANDROID PANEL 6

Salient Features

- Rugged Fan less design with wide temperature range
- Wi-Fi/ Bluetooth connectivity with supplied Antenna
- VESA/Panel/Wall mounting options.
- IP66 for Front panel mounting with industrial grade vibration specifications.
- Sunlight readable high contrast display
- Can add Camera/ Speaker/ Microphone
- Installed Android version compatible with many SCADA apps



Deploy FAST! Compatible APKs/APPs

- Leading SCADA programs
- Engineering and Asset Management
- Industrial IoT (IIoT)
- Web Browser based apps
- Your Android apps

Use Cases

- Industrial Manufacturing: Ideal for process control, remote monitoring of production lines, and managing equipment and machinery..
- Logistics and Warehouse Management: Provides real-time tracking, inventory management, and order fulfillment functionalities.
- Building Management: Suitable for monitoring and controlling HVAC, lighting, security, and access control systems.
- Commercial Applications: Perfect for information kiosks, digital signage, point of sale systems, and interactive learning tools.

Model Description

	Display	
Model	AP6070CN	AP6101CN
Size	7"	10.1"
Type	XGA Color TFT	XGA Color TFT
Resolution	1024 x 600 pixels	1024 x 600 pixels
Touch	Capacitive	Capacitive
Colour	16.7M	16.7M
Contrast Ratio	900:1	900:1
Brightness	1000 nits	1000 nits
CPU		
CPU	Cortex-A53 quad-core	
RAM	1GB	
eMMC	8GB	
Power Supply	0.7A@24VDC +/-15%	1A@24VDC +/- 15%
Interfaces		
Ethernet	1x10/100Mbps (RJ45)	
USB	2x Type A USB port female	
Bluetooth	Built-in, v2.1+EDR/BT v3.0/BT v3.0+HS/BT v4.2	
Wi-Fi	Built-in, supports IEEE 802.11 b/g/n/ac	
Camera IN	Supports US B camera (2 MP)	
Audio/Mic	3.5mm CTIA standard jack	
SD Card Slot	1 x microSDHC	
Accessories		
Power Connector	3 Pin PCB Terminal block (5 .08mm PBT)	
Environmental and Approvals		
Operating Temperature	-20° to 60°C	
Storage Temperature	-30 to 80°C	
Humidity	10 to 90% RH (Non-Condensing)	
Vibration Immunity	5~150Hz, 1g peak, (X, Y, Z)	
Approvals	CE, RoHS, IP66	
Weight	Approx. 0.8kg	Approx. 1kg
Dimensions(W x H x D)	186.00(W)×138.00(H)×30.5(D)	268.00(W)×190.00(H)×32.0(D)

INDUSTRIAL MONITORS

Salient Features

- HDMI Industrial Monitor with Capacitive touch functionality
- 24VDC Powered
- High brightness display and high resolution display
- Robust design with IP66 for Front Panel
- Multiple Mounting options: Wall, VESA and Panel





Model Description

Part Number	IM6070CN	IM6101CN	IM6151CN
Size	7" IPS Display	10.1" IPS Display	15" IPS Display
Resolution	1024 x 600 pixels	1280 x 800 pixels	
Colour	16 M		
Touch	PCAP		
Brightness	1000 nits		
Contrast Ratio	800:1		
Backlight Life	50,000 Hours		
Viewing Angle	Vertical: Center to 80° (Top to Bottom) Horizontal: Center to 85° (Left to Right)		
CPU and Power			
Power Supply	24VDC +/-15%		
Isolation	Yes		
Interfaces			
Port	USB Type - C		
Video	1xHDMI 2.0		
Environmental and Approvals			
Operating Temperature	0° to 50°C		
Storage Temperature	-20 to 85°C		
Humidity	10 to 90% (Non-Condensing)		
Shock Immunity	25g, 11ms, 6 shocks per axis, total 18 shocks (X, Y, Z)		
Vibration Immunity	5~150Hz, 3g peak, (X, Y, Z)		
Mounting	Wall Mount, VESA Mount, Panel Mount		
Protection	IP66 for front panel mounting		
Ordering Information			
Models	Description		
IM6070CN	7” PCAP Touch, 1024x600 High brightness, 24VDC, 1x USB-C, 1xHDMI Industrial monitor		
IM6101CN	10.1” PCAP Touch, 1280x800 High brightness, 24VDC, 1x USB-C, 1xHDMI Industrial monitor		
IM6151CN	15.1” PCAP Touch 1280x800 High brightness, 24VDC, 1xUSB-C, 1xHDMI Industrial monitor		

OUR EXPANSE



*Headquarters & Manufacturing

Map is not to scale. It is used only to depict regions and not actual borders.





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