RENU ELECTRONICS

Product Brochure



ABOUT US

Renu Electronics is your go-to destination for products which can provide Innovative solutions for your Industrial Automation Applications. Our innovative and quality-focused offerings in Industrial Automation, IIoT, Remote Monitoring and Data for AI projects.

Strong R&D and manufacturing coupled with 31+ years of engineering expertise in Product Development, Software and Firmware Development has made us pioneers in India, for Manufacturing and supply of HMIs, Programmable Controllers, HMIs with Control, Industrial PCs, Web Panels, Android Panels and other products in Industrial Automation.

Renu Electronics provides also provide excellent manufacturing services that serve a diverse range of electronics manufacturers. Our state-of-the-art manufacturing facilities and equipment can support our volume manufacturing requirement and help us deliver quality products for our esteemed clients. We can also support your volume manufacturing needs to meet your customer requirements.

Our global and nationwide sales and Support channels are here for you to answer your needs promptly.

Do contact us for more information on
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RoHS COMPLIANT

Certified

Certified

IP66

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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.



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.

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

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

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

Expansion Modules
Analog Expansion Modules

Model	Analog I/P	Analog O/P	Description
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

HMIs

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 Flexipanels® product features alarms/warnings with reliable messaging.



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

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
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

FP7070CN – M

Salient Features



- 7" Color TFT Capacitive with 16: 9 Aspect Ratio and Metal Housing
- High brightness display suitable for outdoor applications
- Cortex A53 Quad core 1.4GHz processor
- Built in PLC Controller function with IEC 61131-3 based software
- Support for FTP, Email and IoT connectivity with MQTT and web server.
- Flash: 4GB, RAM: 1GB
- Advanced graphics for diverse applications.
- Approvals: CE, UL Class I Div 2, IP66 , ROHS and REACH

Ordering Information

Part Number	Description
FP7070CN-M	7” 1024 x 600 TFT LCD, Metal housing, Capacitive touch with over glass, 24VDC, 2 x Serial ports (COM1 DB9: RS232 / RS422 / RS485, COM2 PBT: RS232 / RS422 / RS485), 2 x Ethernet (10/100 Mbps and 10/100/1000 Mbps), 2 x USB Host Type-A, 1 x USB Slave Type-C, 1 x micro SDHC slot

FP7101CN – M

Salient Features



- 10.1" Color TFT Capacitive with 16: 9 Aspect Ratio and Metal Housing
- High brightness display suitable for outdoor applications
- Cortex A53 Quad core 1.4GHz processor
- Built in PLC Controller function with IEC 61131-3 based software
- Support for FTP, Email and IoT connectivity with MQTT and web server.
- Flash: 4GB, RAM: 1GB
- Advanced graphics for diverse applications.
- Approvals: CE, UL Class I Div 2, IP66 ,ROHS and REACH

Ordering Information

Part Number	Description
FP7101CN-M	10.1” 1280 x 800 TFT LCD, Metal housing, Capacitive touch with over glass, Power supply 24VDC, 2 x Serial ports (COM1 DB9: RS232 / RS422 / RS485, COM2 DB9: RS232 / RS422 / RS485), 2 x Ethernet (10/100 Mbps and 10/100/1000 Mbps), 2 x USB Host Type-A, 1x USB Slave Type-C, 1x micro SDHC slot

HMI with I/O

Renu Electronics offers industrial FlexiPanels® HMI with Digital and Analog I/Os. Renu's Flexipanels® 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.



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

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

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

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-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-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.

FP1043CN - E

Salient Features

- 4.3" Color TFT Capacitive with 16: 9 Aspect Ratio and Plastic Housing
- 1 X Pluggable Expansion modules with configurable Analogue I/O
- Suitable for basic applications with trends, tasks, alarms, Data logging.
- Built in PLC Controller function programmable by installed IEC 61131-3 based software
- Competitively priced
- IP66 protection for front panel mounting
- Approvals: CE, UL Class I Div 2, IP66, ROHS and REACH



Ordering Information

Part Number	Description
FP1043CN-E	4.3" 480 x 272 TFT, Capacitive touch with over glass, 24VDC, 1x Serial ports (COM1: DB9:RS232/RS485), 1x 10/100 Mbps Ethernet ports, 1x USB Host, 1x USB Slave, 1x micro SDHC slot, Max. expansion module supported - 1

FP1070CN - E

Salient Features



- 7" Color TFT Capacitive with 16: 9 Aspect Ratio and Plastic Housing
- 3 x Pluggable Expansion modules with configurable Analog I/O
- Suitable for basic applications with trends, tasks, alarms, Data logging.
- Built in PLC Controller function programmable by installed IEC 61131-3 based software
- Competitively priced
- IP66 protection for front panel mounting
- Approvals: CE, UL Class I Div 2, IP66, ROHS and REACH

Ordering Information

Part Number	Description
FP1070CN-E	7" TFT Capacitive touch with overlay glass, Power supply 24V DC, 2x Serial ports (1x DB9 port, 1x PBT port) and1x RJ45 (10/100Mb), 1x USB Host 2.0 Type-A, 1x USB Slave 2.0 Type-C, Max. Pluggable I/O Modules - 3

FP1101CN - E

Salient Features



- 10.1" Color TFT Capacitive with 16: 9 Aspect Ratio and Plastic Housing
- 5 X Pluggable Expansion modules with configurable Analogue I/O
- Suitable for basic applications with trends, tasks, alarms, Data logging.
- Built in PLC Controller function programmable by installed IEC 61131-3 based software
- Competitively priced
- IP66 protection for front panel mounting
- Approvals: CE, UL Class I Div 2, IP66 ,ROHS and REACH

Ordering Information

Part Number	Description
FP1101CN-E	10.1" 1024 x 600 TFT, Capacitive touch with overlay glass, 24VDC, 2x Serial ports (COM1 DB9: RS232/RS422/RS485, COM2 DB9: RS232/RS422/RS485, 1x 10/100 Mbps Ethernet ports, 1x USB Host, 1x USB Slave, 1x micro SDHC slot, Max. Expansion module supported - 5

FP7070CN - E

Salient Features

- 7" Color TFT Capacitive with 16: 9 Aspect Ratio and Plastic Housing
- High brightness display suitable for outdoor applications
- Cortex A53 Quad core 1.4GHz processor
- 3 x Pluggable Expansion modules with configurable Analogue I/O
- Built in PLC Controller function with IEC 61131-3 based software
- Supports FTP, Email and IoT connectivity with MQTT and web server
- Flash: 4GB, RAM: 1GB
- Advanced graphics for diverse applications.
- Approvals: CE, UL Class I Div 2, IP66, ROHS and REACH



Ordering Information

Part Number	Description
FP7070CN-E	7" 1024 x 600 TFT LCD, Capacitive touch with over glass, 24VDC, 2x Serial ports (COM1 DB9: RS232 / RS422 / RS485, COM2 PBT: RS232 / RS422 / RS485), 1 x Ethernet (10/100 Mbps), 1 x USB Host Type-A, 1 x USB Slave Type-C

FP7101CN - E

Salient Features

- 10.1" Color TFT Capacitive with 16: 9 Aspect Ratio and Plastic Housing
- High brightness display suitable for outdoor applications
- Cortex A53 Quad core 1.4GHz processor
- 5 x Pluggable Expansion modules with configurable Analogue I/O
- Built in PLC Controller function with IEC 61131-3 based software
- Support for FTP, Email and IOT connectivity with MQTT and web server.
- Flash: 4GB, RAM: 1GB
- Advanced graphics for diverse applications.
- Approvals: CE, UL Class I Div 2, IP66 , ROHS and REACH



Ordering Information

Part Number	Description
FP7101CN-E	10.1" 1024 x 600 TFT LCD, Capacitive touch with over glass, Power supply 24VDC, 2 x Serial ports (COM1 DB9: RS232 / RS422 / RS485, COM2 DB9: RS232 / RS422 / RS485, 1 x Ethernet (10/100 Mbps), 1 x USB Host Type-A, 1 x USB Slave Type-C, 1 x micro SDHC slot, Max. expansion slot - 5

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.



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)

Description

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

WP7CN HTML5 Web Panel

Salient Features

- Web Panel with Google's Chromium-based web browser
- Capacitive touch PCAP with 16:9 Aspect Ratio
- High Brightness Display suitable for Outdoor applications
- HTML5 compatible web browser with chromium version V111
- Works with any Web server of your choice (including Codesys, Ignition SCADA, Node-RED, Apache, Grafana# etc.)
- Cortex A53 Quad core 1.4GHz
- IP66 protection for front panel mounting



Ordering Information

Part Number	Description
WP7043CN	4.3” TFT Web Panel, 24VDC, 1 Ethernet (10/100Mbps)
WP7070CN	7” TFT Web Panel, 24VDC, 1 Ethernet (10/100Mbps)
WP7101CN	10.1” TFT Web Panel, 24VDC, 1 Ethernet (10/100Mbps)

WP7CN - M Web Panel

Salient Features



- Web Panel with Google's Chromium-based web browser
- Metal housing, Auto adjustable brightness control, Sunlight readable high resolution displays
- Suitable for rugged environments and outdoor applications
- HTML5 compatible web browser with chromium version V111.
- Works with any Web server of your choice (including Codesys, Ignition SCADA, Node-RED, Apache, etc.)
- Cortex A53 Quad-core 1.4GHz, Cortex M4 400MHz
- IP66 protection for front panel mounting

Ordering Information

Part Number	Description
WP7070CN - M	7” PCAP Web Panel, 24VDC, 1 USB Type-C, 2 USB Hosts, 2 Ethernet ports
WP7101CN - M	10.1” PCAP Web Panel, 24VDC, 1 USB Type-C, 2 USB Hosts, 2 Ethernet ports

Field I/O

Renu's Field I/O's expand PLC/Scada capabilties. 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.



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

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



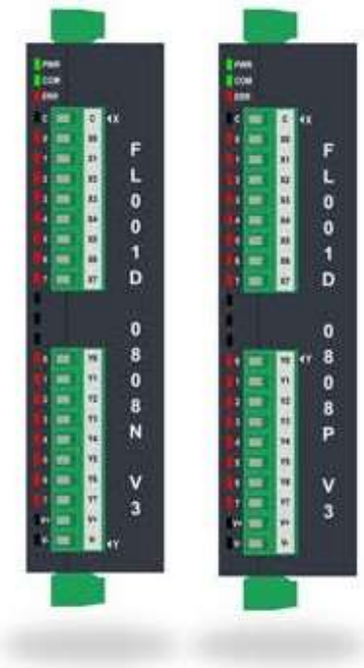
Ordering Information

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, 2wire 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

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.



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

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-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



GWY-300

For more details
SCAN HERE

For more details
SCAN HERE

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 GLOBAL COVERAGE



*Headquaters & Manufacturing

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

NOTES



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