JK Fenner

POWERTRAN®
Industrial Automation

POWERTRAN
PRODUCT GUIDE

Ultimate Access / SCADA Software

PLC / Programmable Logic Controller

Xpanel / HMI (Human Machine Interface)

Hybrid Xpanel / HMI + PLC

IPC / Industrial Panel Computer

IAC / Industrial Rack Type Computer

J.K.Fenner (India) Limited offers innovative automation services from simple to complex machinery control applications in various industrial environment.

POWERTRAN®, your complete automation partner is designed to provide solutions through wide range of control and monitoring devices such as SCADA, PLC, HMI, AC Drives and Servo Systems with high performance and uncompromising reliability.

POWERTRAN Product Line-Up

Ultimate Access | SCADA Software
Redundancy · DS/RS · MOBILE · WEB

PLC | Programmable Logic Controller
PLC-XP · PLC-CP · PLC-S · POWERTRAN Programming Tool

Xpanel | HMI (Human Machine Interface)
4, 7, 10, 12, 15 Inch · Xpanel-Designer

Hybrid Xpanel | HMI + PLC
7 Inch

IPC | Industrial Panel Computer
iNT12 · iNT15 · NT19 · iNP12 · iNP15 · NP19

IAC | Industrial Rack Type Computer
NU1R

ULTIMATE ACCESS
SCADA Software

Ultimate Access SCADA is a Windows based software, optimized for a wide variety of industries. Our SCADA allows users to monitor and control the system at any time, from anywhere.

POWERTRAN PLC
Programmable Logic Controller

POWERTRAN-PLC is an industrial control device based on the international standards IEC61131, which is appropriate for industrial sites that require high reliability and performance. POWERTRAN-PLC is optimized for industry 4.0 and ready to be implemented in smart factory solutions.

POWERTRAN XPANEL
HMI (Human Machine Interface)

POWERTRAN Xpanel is a Microsoft Windows CE based HMI unit, proven to be optimal for all kinds of industrial sites. Easy-to-use project design tool combined with reliable HMI hardware makes Xpanel suitable for every application.

POWERTRAN HYBRID XPANEL
HMI + PLC

POWERTRAN Xpanel Hybrid is an all-in-one unit containing PLC and HMI. Hybrid Xpanel, paired with user-friendly design environment, is an ideal solution to get maximum benefits from reliable and powerful POWERTRAN products.

POWERTRAN IPC
Industrial Panel Computer

POWERTRAN IPC is an industrial panel PC with reliable and powerful hardware performance. Our IPCs are proven to be reliable in all industrial environments through years of field use in various applications.

TOUCH

PPC

POWERTRAN IAC
Industrial Rack Type Computer

POWERTRAN IAC is a rack type industrial computer. It has a fan-less design that is resistant to dust, and is equipped with a highly reliable mainboard that is manufactured by POWERTRAN.

SCADA

SUPERVISORY CONTROL AND DATA ACQUISITION

UltimateAccess

REDUNDANCY | DS/RS | MOBILE | WEB

Library
Intuitive graphic design with advanced images and animation library

Network
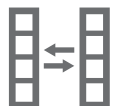Easy to develop network with more than 500 communication drivers

ODBC
Supports ODBC to connect universal database system

Redundancy and Server-Client System
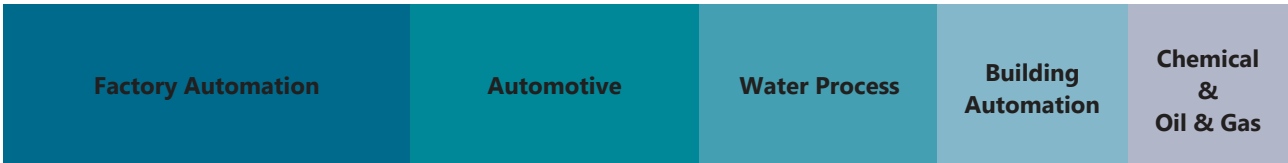Stable system operation with redundancy and server-client system

Ultimate Access is a Windows based SCADA software for monitoring and controlling industrial automation systems.

- Real time and historical data can be monitored and logged
- Trend feature can display streamed data
- Various types of alarm can be used to notify and record abnormal activities
- Reports can be generated in Excel format
- Security level can be defined to regulate user access
- Embedded VB script module gives users full ability to create customized functions
- OPC Server / Client is supported
- Automation system can be controlled and monitored through web or mobile devices
- OLE Automation enables monitoring and data link with other programs
- FDA CFR21 part 11 requirements are fully met

SCADA SCOPE

Factory Automation	Automotive	Water Process	Building Automation	Chemical & Oil & Gas

REDUNDANCY SYSTEM

Highly reliable monitoring and control system

WEB / MOBILE SERVER

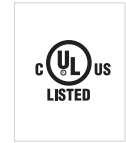Monitoring and controlling system using Internet

FEP COMMUNICATION

SCADA to SCADA high speed data communication system

OPC SERVER / CLIENT

Supports standard OPC server/client
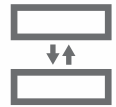
POWERTRAN PLC
PROGRAMMABLE LOGIC CONTROLLER

PLC-XP | **PLC-CP** | **PLC-S** | **POWERTRAN PROGRAMMING TOOL**

Various Lineup
PLC lineup covers from large plant to simple machine control

Redundancy
CPU, Power, and network redundancy offered

Expansion
Easy expansion using ethernet connection

Positioning
Motor control by EtherCat communication supported

POWERTRAN offers the most reliable and cost-effective controllers for a wide range of automation systems. POWERTRAN PLC lineup comprises of XP Series, CP Series, and PLC-S series for a various scale of applications.

· **COMMUNICATION**
Support for Serial, Ethernet, CDMA, Fieldbus, BACnet, OPC UA, and more.

· **REDUNDANCY**
Achieve higher reliability through CPU, Power, and Network Redundancy.

· **POWERFUL HARDWARE**
High-performance CPU built-in.

· **BASE EXPANSION**
Unlimited scalability through base expansion.

· **USER-FRIENDLY PROGRAMMING SOFTWARE**
Intuitive UI and versatile instruction library allows programmers to work efficiently and productively.

XP SERIES

Best for large-scale applications that require powerful performance and uncompromising reliability.

CP SERIES

Ideal for medium-scale applications. Offers various and specialized modules for user customization.
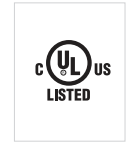
PLC-S SERIES

All-in-One compact PLCs that are the most cost-effective for small to medium size systems.

POWERTRAN XPANEL

HMI (HUMAN MACHINE INTERFACE)

4, 7, 10, 12, 15 Inch | | Xpanel-Designer
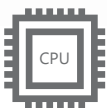
Line-up
4" to 15" models available

Front bezel aluminum die-casting
Maximizing equipment durability
(10" and larger)

High speed CPU
Fast data processing with high performance CPU

Design program
XPANEL Designer
User friendly interface for project creation

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PRODUCT CATALOGUE
PRODUCT GUIDE

POWERTRAN-Xpanel takes your HMI experience to the next level.
Our products offer proven reliability for any industrial environment and
the intuitive designing software for rapid project development.

· **SCHEDULE**
Specific tasks can be triggered based on date and time

· **SECURITY**
Protects the system by regulating user access
(up to 10 levels)

· **ALARM**
Alarm can be used to alert and record
abnormal activities

· **RECIPE**
Pre-defined parameters offer convenience to
switch among different processes

EXTENSIVE LIBRARY
More than 20,000 graphic objects are included

DATA BRIDGE
Xpanel can act as an intermediate node between
two devices

SCRIPT
C style script module provides full ability to
create customized functions

VNC·
Xpanel can be remotely controlled through VNC app

HIGH PERFORMANCE

· High-speed and efficient CPU
· High quality LCD Display
· Powerful and versatile communication

HIGH RELIABILITY

CE/KC/UL/FCC/IP65 Certified
Front bezel aluminum die casting
(10" and larger models)

ANIMATION

· GIF support
· Custom GIF with animation editor
· Animation simulation with editor
· Add custom animations to the library

FLEXIBLE NETWORK SUPPORT

1 Ethernet Port, Maximum 2 Serial Ports, 1 USB Host Port
Simultaneous communication up to 3 devices
(RS232C, RS422/485, Ethernet)
Multidrop (RS422C/485, Ethernet)
Provides more than 200 communication drivers

PROJECT SIMULATOR

· Easy to debug with project simulation
· User can test the completed project before deploying
  it in the field

EASY UPGRADE

OS upgrade through Ethernet port
Runtime upgrade possible with Xpanel Designer

INTUITIVE DESIGN TOOL
(XPANEL DESIGNER)

· More than 20,000 graphic library objects
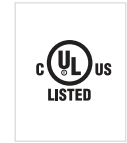· User-friendly interface for easy development and
  integration

DATA LOGGING

Data can be stored in local memory or external
USB/SD drives
Logged data can be displayed as a trend

POWERTRAN
HYBRID XPANEL

HMI + PLC

7 Inch

High quality

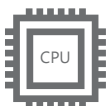LED display-Low power, low heat,
full brightness and vivid color display

Easy module expansion

Up to 2 modules can be added

High speed CPU

Fast data processing with high
performance CPU

Design program
XPANEL Designer

User friendly interface for project creation

The most advanced micro PLC integrates seamlessly with HMI featuring high quality LCD display.

VESA WALL MOUNT SUPPORT

The device is equipped with a 100 x 100 mm square hole pattern.

PLC MODULE EXPANSION

Hybrid Xpanel has PLC-S CPU built in.
All of the PLC-S modules are compatible.
(Maximum of 2 PLC-S modules can be added)

HIGH RELIABILITY

Hybrid Xpanel has the reliability of Xpanel HMI and PLC-S combined, offering maximized reliability for all industries.

· Surge Tolerance : above 3kV
· EFT/B Tolerance : above 3kV
· Impulse Noise Tolerance : above 3kV
· All other miscellaneous test criteria such as temperature and vibration meet POWERTRAN PLC standards.

DETACHABLE PLC TERMINAL BLOCK

USB Hub allows the users to use both Xpanel Designer (HMI designing software) and POWERTRAN (PLC programming software).

TRUE PLC INTEGRATION

Unlike other products that simply have I/Os in an HMI, in Hybrid Xpanel, a real PLC is integrated.
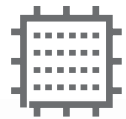All of the advanced features of PLC-S are provided.

POWERTRAN IPC

INDUSTRIAL PANEL COMPUTER

iNT12 | iNT15 | NT19 | iNP12 | iNP15 | NP19

Low Power and Low Heat System

Low power consumption (21W for NT12)

Intel Quad-Core Processor
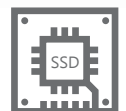
High performance CPU

Various I/O Ports

Ethernet 2port / Serial 4port

SSD Installed

SSD Storage Installed

POWERTRAN IPC is an industrial PC which shows strong performance and reliability in various industrial sites.

- POWERTRAN-SCADA installed (POWERTRAN-TOUCH)
- High resolution display and polished design
- Provides Ethernet, Serial(RS232C / 422 / 485), USB Ports for easy connection with other systems
- Durability and stability with SSD storage

- High performance Quad Core CPU embedded
- DC24V power
- Microsoft Windows OS installed
- Reliable fanless design

POWERTRAN - TOUCH

- POWERTRAN-SCADA installed
- Combination of HMI and PC to reduce cost
- East project editing and operation
- Fanless PC with Touch Panel
- Quad Core CPU and SSD installed
- Microsoft Windows OS installed

POWERTRAN - PPC

- Touch Panel PC for automation system
- Microsoft Windows OS installed
- Proven to be optimal for all industrial environment sites

POWERTRAN IAC

INDUSTRIAL RACK
TYPE COMPUTER

NU1R

Slim Size
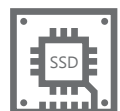1U Rack size

Equipment Longevity
Fanless CPU and system

Equipment Stability
EWF function for data protection
and easy recovery system

SSD Storage Installed
Fast booting and minimize data loss

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POWERTRAN-IAC is a rack type industrial PC specialized for industrial automation.

- 1U size Rack Mount Computer
- Fanless Solution
- POWERTRAN Power Solution for industrial sites
- SSD storage used for fast booting and minimized data loss
- DC24V Power
- Microsoft Windows OS installed

NU1R

NU1R offers system stability and longevity through fanless design. Our industrial PCs are designed for harsh and dusty industrial sites, and its low energy consumption design is also ideal for areas where minimizing power consumption is essential.

We built the PCs from the ground up by designing and manufacturing our own internal hardware to meet the industrial standards. NU1R is perfect for all kinds of application in every industry.

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AUTOMATION APPLICATIONS

POWERTRAN®

Industrial Automation