![JK Fenner logo] **JK Fenner**

POWERTRAN®
Industrial Automation

POWERTRAN IPC

INDUSTRIAL PERSONAL COMPUTER

iNT(iNP) 210 | 211| 212 | 215

NT(NP) 219

◆ **POWERTRAN TOUCH**

◆ **POWERTRAN PPC**

◆ **POWERTRAN IAC**

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.
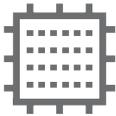
INDUSTRIAL PERSONAL COMPUTER

POWERTRAN-IPC is an industrial computer device that runs on Windows OS and Intel Quad-core CPU. What makes an industrial PC different from the everyday PC is that it provides powerful performance and durability even in harsh environments which is not uncommon in and around many factories and facilities. Together with POWERTRAN's UltimateAccess SCADA software, POWERTRAN-IPC can improve both operation and productivity levels at your facility.

PRODUCT PERFORMANCE

POWERTRAN PPC

The mainboards that go into our PCs are specifically designed and manufactured in-house to withstand harsh environmental conditions and allow the PCs to maximize operation and productivity levels.

Quad-Core CPU

Strong performance with Intel Quad-Core 2.0GHz CPU.

SSD(Solid State Disk)

Allows fast startup and minimizes potential data loss

Low Power, Low Heat

Extremely low energy consumption of 21W (with iNT12 model)

Variety of Interfaces

Includes 2 Ethernet ports and 4 Serial ports

UWF (UNIFIED WRITE FILTER)

For increased security and survivability of devices in the field, UWF prevents unauthorized use of the disk volume, such as the installation of software or changes in system settings.

WINCLONE

Winclone provides a one-click solution for system back-up and recovery and gives a peace of mind.

ALUMINUM DIE CASTING

Aluminum die-casted front bezel (10", 12", 15" model) provides increased durability through improved shock-resistance and heat dissipation.

EXTREME DURABILITY

All models are IP65 certified, and the front touch screen film is fortified with special formula to add scratch resistance.

PRODUCT PERFORMANCE

POWERTRAN TOUCH

POWERTRAN TOUCH is a product created by integrating UltimateAccess ME (Machine Edition) with our powerful PPC. Be it a smart factory, large chemical plant, power plant, or water treatment system - our customers are choosing POWERTRAN TOUCH as their solution.

GRAPHICAL EDITING ENVIRONMENT

UltimateAccess provides an easy editing environment for users. Advanced graphic images and animation library are built in, allowing engineers to build projects quickly. MUI (Multilingual User Interface) pack allows users to select their preferred display language.

ALARM

Alarm trigger information can be delivered to you in a variety of ways. Visual alarm summary on the screen, printed alarm summary, audio output, as well as text messages can alert users of the current situation. Also, users can configure a specific action when an alarm is triggered or acknowledged. Up to 32767 historical alarm events can be logged in the system.
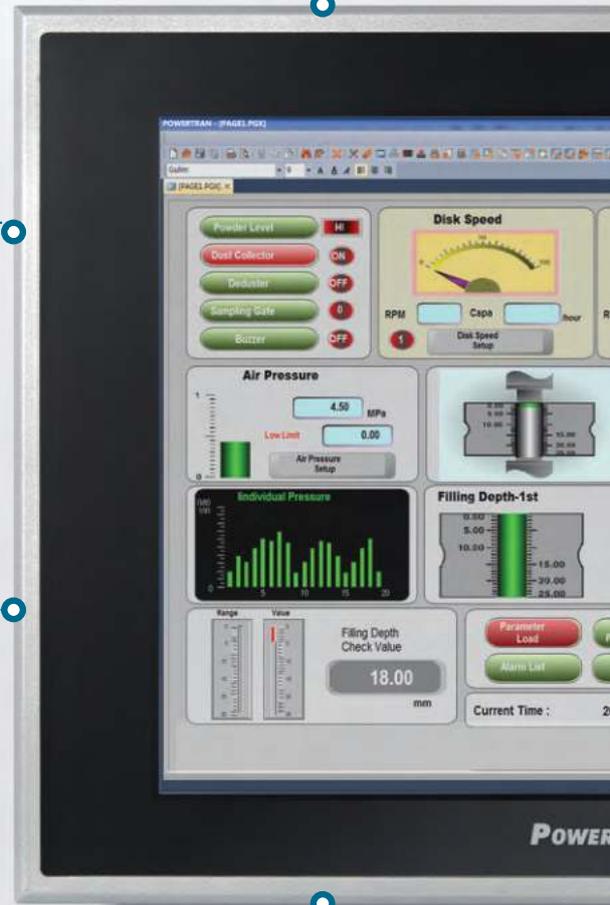
NETWORK

UtimateAccess is compatible with most communication drivers that are widely used around the world. Also, well-known protocol standards such as OPC, Modbus, etc. are fully supported.

TREND

Real-time and historical modes for YT, XY, ST and Multiple trends are available for the visualization of data.
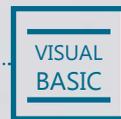
AN / TOUCH

DATA LOGGING AND DBMS

Data can be logged at a specified frequency, at a specified time, or whenever an event takes place. Collected data can be saved in MYSQL, ORACLE, etc and can help smart factories analyze data at a BI level.

VISUAL BASIC

SCRIPT

UltimateAccess offers a programming language based on Visual Basic. More than 500 built-in functions are provided to fully explore the functionalities of the system.

SCHEDULER

Scheduler makes event management possible. The system will operate automatically according to the pre-defined settings. This feature can be useful on holidays or other times when the user-defined configuration is needed.

SECURITY

A maximum of 100 security levels can be generated for regulating user access. This allows only authorized users to be able to make certain changes to the system. Login history can be recorded, and specific actions can be configured to take place when logging in or out.
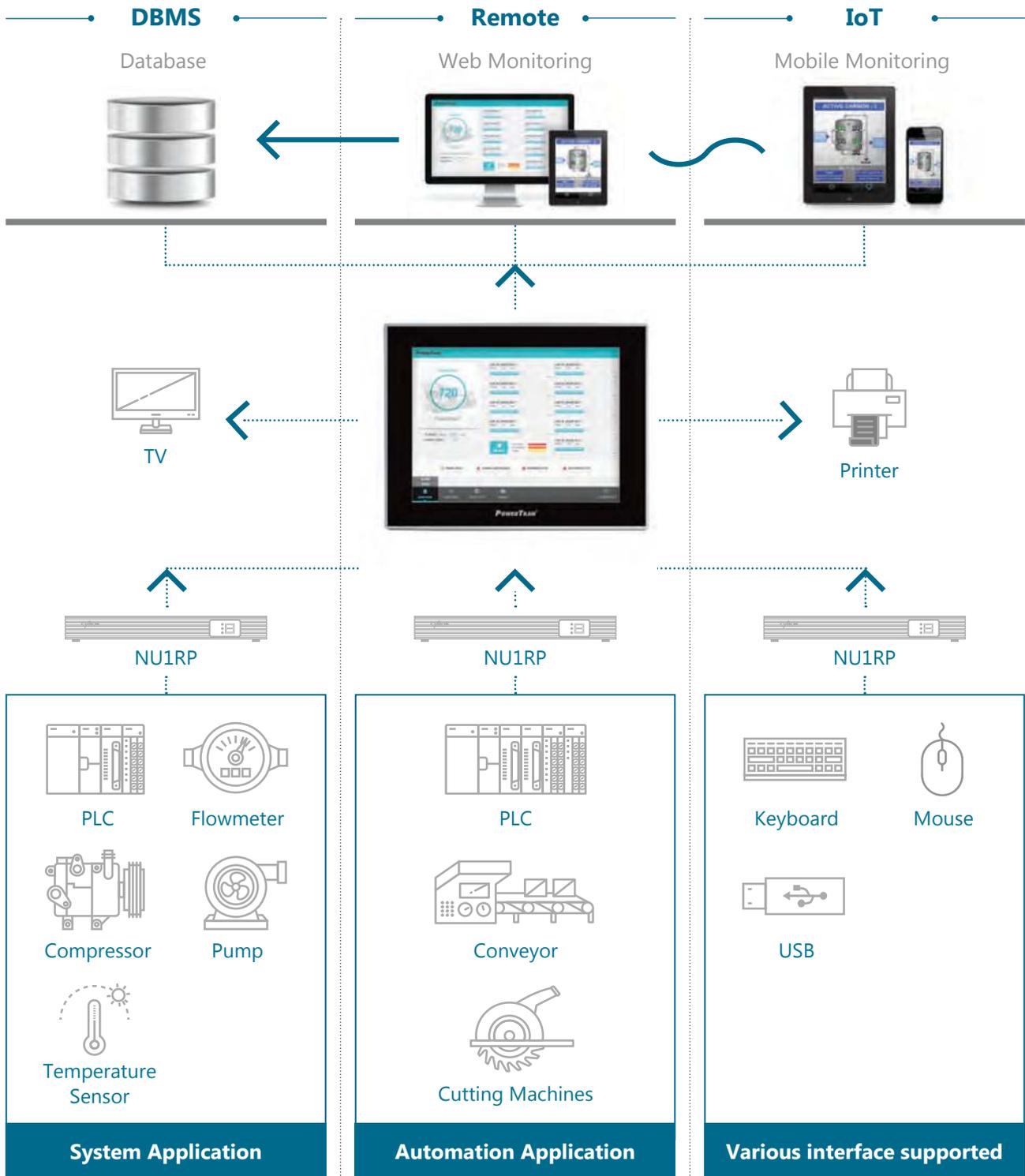
PRODUCT PERFORMANCE

POWERTRAN IAC

POWERTRAN-IAC features the 1U RACK TYPE slim casing with a fanless design. This industrial computer can be used in various industrial sites where reliability, resistance to dust, and low power consumption are important factors to be considered.

SPECIFICATION	CM-NU1RP-A
CPU	Intel Baytrail-I Embedded Processor J1900 Quad Core 2.0GHz (FANLESS)
MEMORY	DDR3L SDRAM 4GB (Max. 8GB)
GRAPHIC	Integrated Intel HD Graphic
STORAGE	SSD 120 GB
EX. STORAGE	SATA X 1
SERIAL (COM1, COM2, COM3)	RS-232C
ETHERNET	Gigabit Ethernet / 2 Port
USB	Front : USB 2.0 / 2 Port, Rear : USB 2.0 / 4 Port
AUDIO	Line-out / 1 Port , MIC-in / 1 Port
EX. VIDEO	VGA / HDMI
OS (Selectable)	Windows 10 IoT Enterprise LTSB / Windows Embedded Standard 7
UTILITY PROGRAM	EWF(UWF : WIN10) / Winclon (Recovery System)
POWER CONSUMPTION	13W
POWER INPUT	AC100~240V, 50/60Hz, 1.6A

PRODUCT CONFIGURATION

SYSTEM CONFIGURATION

DBMS
Database

Remote
Web Monitoring

IoT
Mobile Monitoring

TV

Printer

NU1RP

NU1RP

NU1RP

PLC Flowmeter

Compressor Pump

Temperature Sensor

System Application

PLC

Conveyor

Cutting Machines

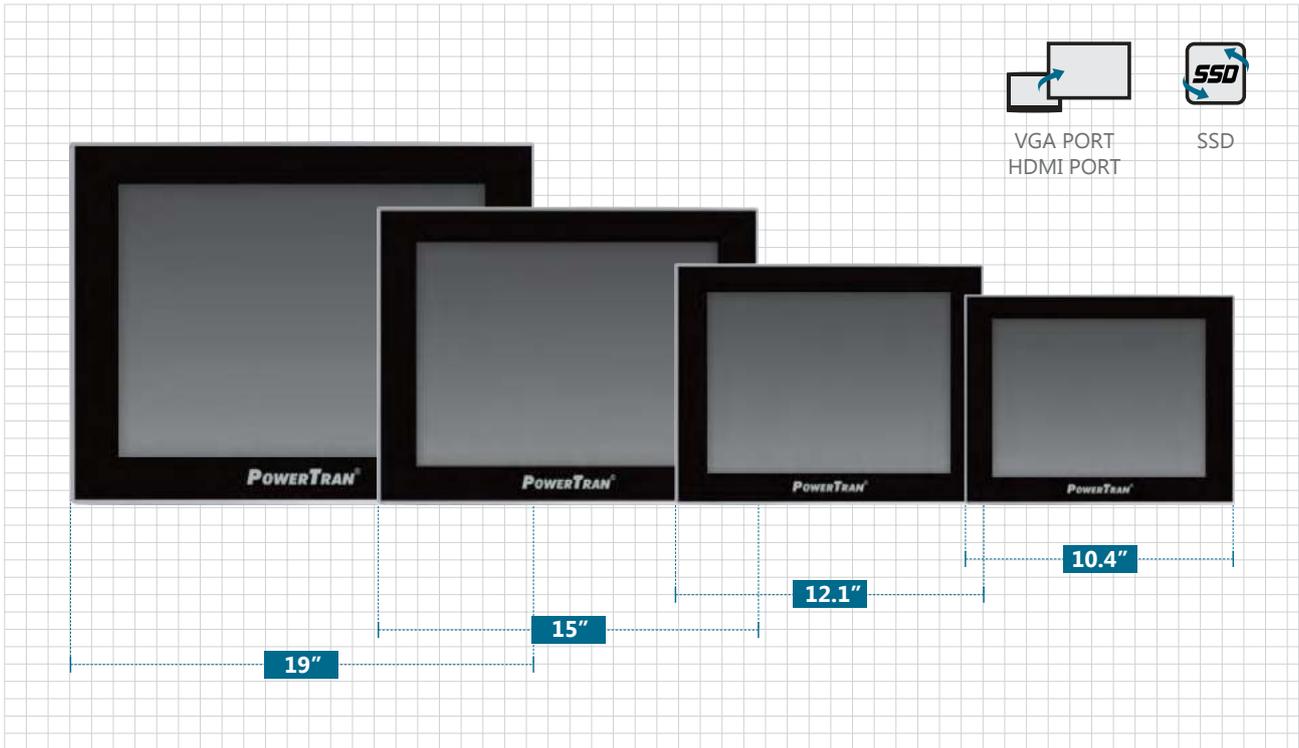**Automation Application**

Keyboard Mouse

USB

Various interface supported

POWERTRAN- PPC SPECIFICATION

POWERTRAN IPC series provides a complete line of industrial PCs. The PPC, TOUCH, and IAC products all share the fanless design and offer robust and reliable operation in industrial sites.

PRODUCT SPECIFICATION

VGA PORT
HDMI PORT

SSD

10.4"

12.1"

15"

19"

Fanless design and low power consumption	Windows 10 IoT Enterprise OS (default)
Aluminum die-casted front bezel	UWF/EWF program for protection of the O/S
Slim body with panel attachment	4 serial ports, parallel, Ethernet (10/100/1000/1000 Base T), RGB port
Scratch-resistant touchscreen	All in one embedded board
LED BLU maximizes screen lifecycle	Easy connection with other control devices

ITEM	SPECIFICATION	ITEM	SPECIFICATION
General Voltage	DC24V or AC100-240V	Dust	≤ 0.1mg/m3
Operating Temperature	0℃~ 50℃	Pollution	Pollution degree 2
Preserving Temperature	-20℃~ 60℃	Air condition	Avoid corrosive gas and excessive dust
Operating Humidity	Relative humidity 10%~85% (Below 29℃, no condensation)	Vibration Resistance	SSD storage type 9.8m/S2, 10Hz~25Hz in X,Y,Z (80min)
Preserving Humidity	Relative humidity 10%~85% (Below 39℃, no condensation)	Noise Immunity	Impulse, EFT/Burse, Surge, ±2KV, 1uS
Environment Condition	800hPa~1114hPa(Below 2000m)	Electrostatic Discharge Immunity	4kV(IEC61000-4-2 LEVEL 3), 8kV(Air discharge)

AUTOMATION APPLICATIONS

POWERTRAN®

Industrial Automation