CYMON

CIMON IPC

INDUSTRIAL PERSONAL COMPUTER

- CIMON TOUCH
- CIMON PPC
- CIMON IAC

iNT(iNP) 210 | 211 | 212 | 215

NT(NP) 219

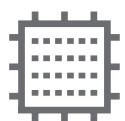# INDUSTRIAL PERSONAL COMPUTER

CIMON-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 CIMON's UltimateAccess SCADA software, CIMON-IPC can improve both operation and productivity levels at your facility.
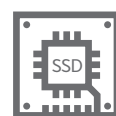
PRODUCT PERFORMANCE

CIMON 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.
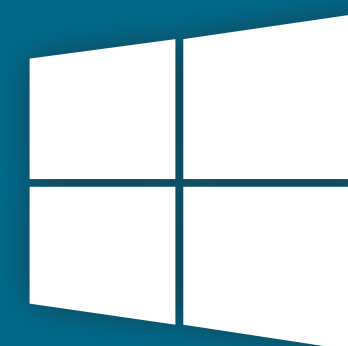
Newest Microsoft Windows OS Supported
- Windows 10 IoT Enterprise/Windows 10 Professional/Windows Embedded Standard 7
- MUI(Multilingual User Interface) pack is supported

CIMON/TOUCH

PRODUCT PERFORMANCE

CIMON TOUCH

CIMON 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 CIMON 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.

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.

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.
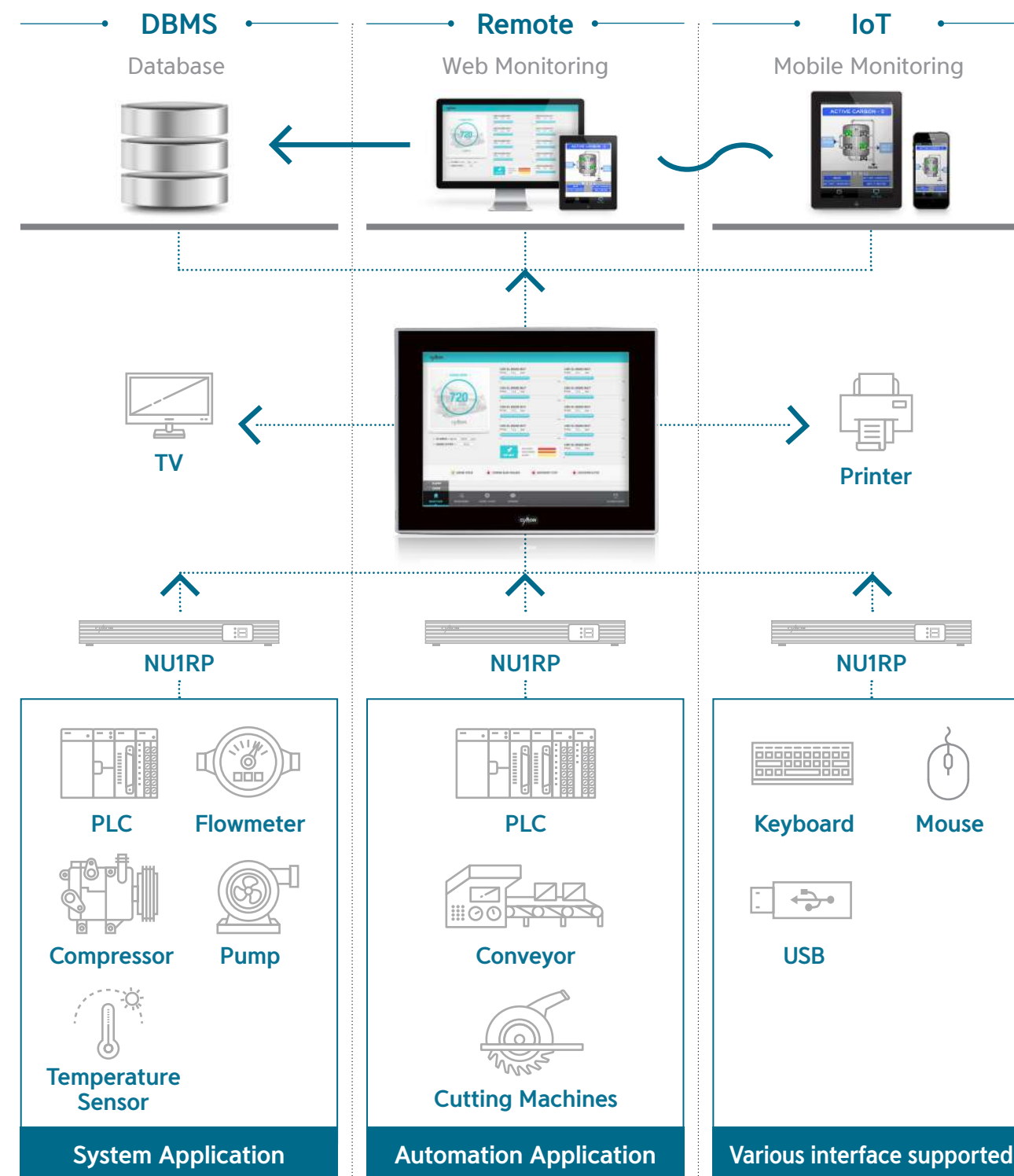
PRODUCT PERFORMANCE

CIMON IAC

CIMON−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

CIMON– PPC SPECIFICATION

CIMON 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.
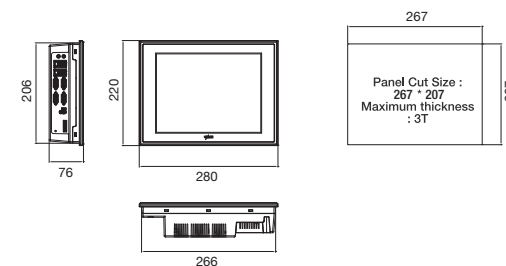
PRODUCT SPECIFICATION

VGA PORT
HDMI PORT

SSD

10.4"
12.1"
15"
19"
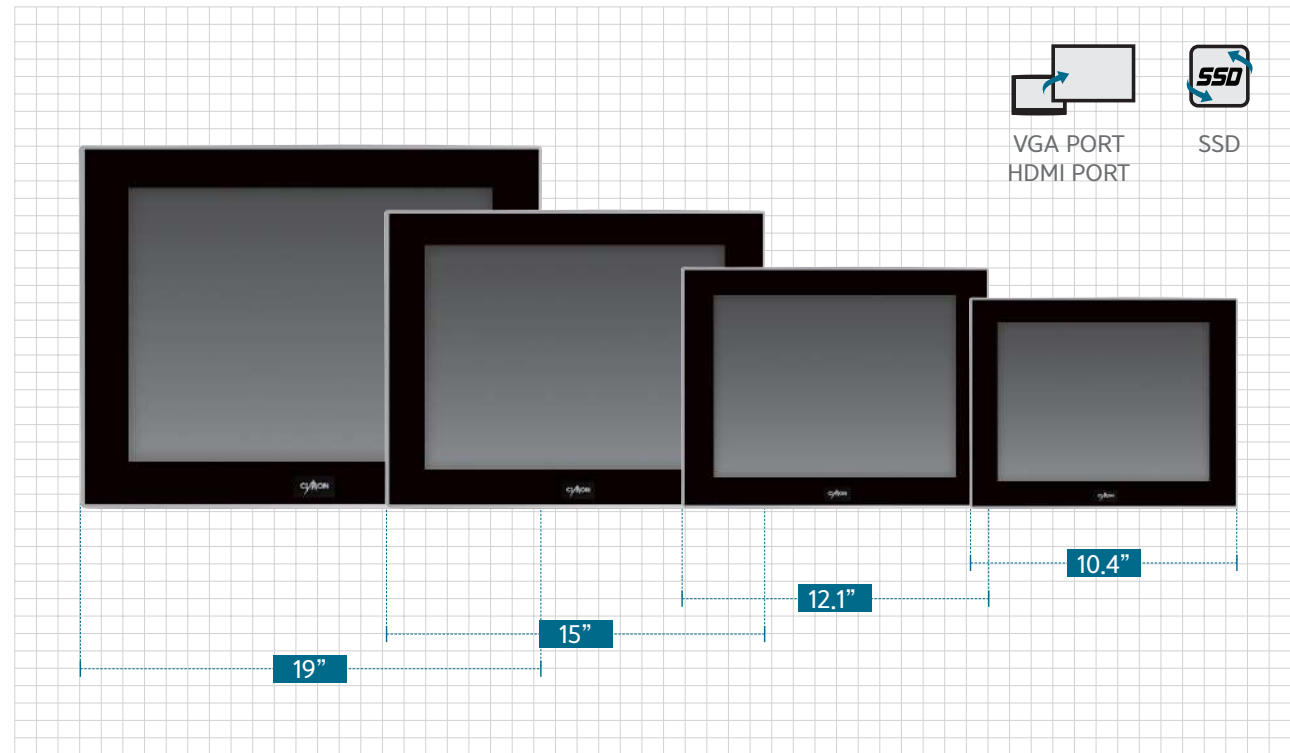
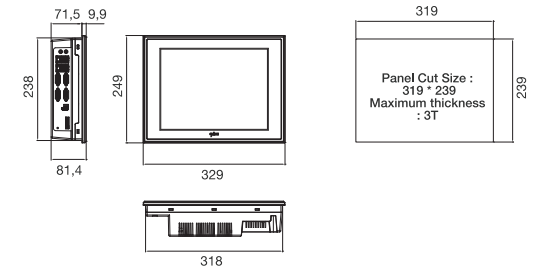|	Fanless design and low power consumption		Windows 10 IoT Enterprise OS (default)
	Aluminum die-casted front bezel		UWF/EWF program for protection of the O/S
	Slim body with panel attachment		4 serial ports, parallel, Ethernet (10/100/1000/1000 Base T), RGB port
	Scratch-resistant touchscreen		All in 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)

	CM-iNT(iNP) 210-A/D	CM-iNT(iNP) 211-A/D	CM-iNT(iNP) 212-A/D	CM-iNT(iNP) 215-A/D	CM-NT(NP) 219-A/D
CPU	Intel Baytrail-I Embedded Processor J1900 Quad Core 2.0GHz (FANLESS)				
MEMORY	DDR3L SDRAM 4GB (Max. 8GB)				
GRAPHIC	Integrated Intel HD Graphic				
DISPLAY	10.4" TFT LCD		12.1" TFT LCD	15" TFT LCD	19" TFT LCD
RESOLUTION	SVGA (800X600)		XGA (1024X768)		SXGA (1280X1024)
LCD BRIGHTNESS	700cd/m2	600cd/m2	700cd/m2	450cd/m2	250cd/m2
Backlight Unit	LED				
TOUCH	Analog Resistive				
STORAGE	SSD 120 GByte				
EX. STORAGE	SATA X 1				
SERIAL	RS232C :2 Port RS422 / 485 : 1 Port		RS232C : 3 Port RS422 / 485 : 1 Port		
ETHERNET	Gigabit Ethernet / 2 Port				
USB	USB 2.0 / 4 Port				Front : USB 2.0 / 2 Port Rear : USB 2.0 / 4 Port
AUDIO	Line-out / 1 Port, MIC-in / 1 Port				
EX. VIDEO	HDMI		VGA / HDMI		
OS (Selectable)	Windows 10 IoT Enterprise LTSB / Windows Embedded Standard 7				
UTILITY PROGRAM	UWF(EWF : WIN7) / Winclon (Recovery System)				
POWER CONSUMPTION	15W	16W	21W	23W	25W
POWER INPUT	-A : AC100~240V, 50/60Hz -D : DC24V				
ENCLOSURE	ALUMINUM			PLASTIC	

iNT(iNP)210/211 10.4 inch

267
206
220
207
76
280
266

Panel Cut Size : 267 * 207
Maximum thickness : 3T

iNT(iNP)212 12.1 inch

319
71,5 9,9
238
249
239
81,4
329
318

Panel Cut Size : 319 * 239
Maximum thickness : 3T

iNT(iNP)215 15 inch

382
76,4 9,9
296
310
297
86,3
395
381

Panel Cut Size : 382 * 297
Maximum thickness : 3T

iNT(iNP)219 19 inch

463
390
371
372
480
124
462

Panel Cut Size : 463 * 372
Maximum thickness : 3T

COM3
COM1
USB
USB

COM4
S / W   TXD+ GND RXD-
          TXD- RXD+
          485   422
HDMI
LED
VGA
COM2

CIMON
Total Solution for Industrial Automation