

## NPC Embedded Communication Server



The NPC Series Embedded iPC is purpose designed for communication intensive applications requiring extensive LAN and Serial port capacity. In particular the NPC has been designed to integrate into an evolving utility communication infrastructure where there is likely to be extensive use of Intelligent Electronic Devices (IEDs), their configuration software, and supporting systems.

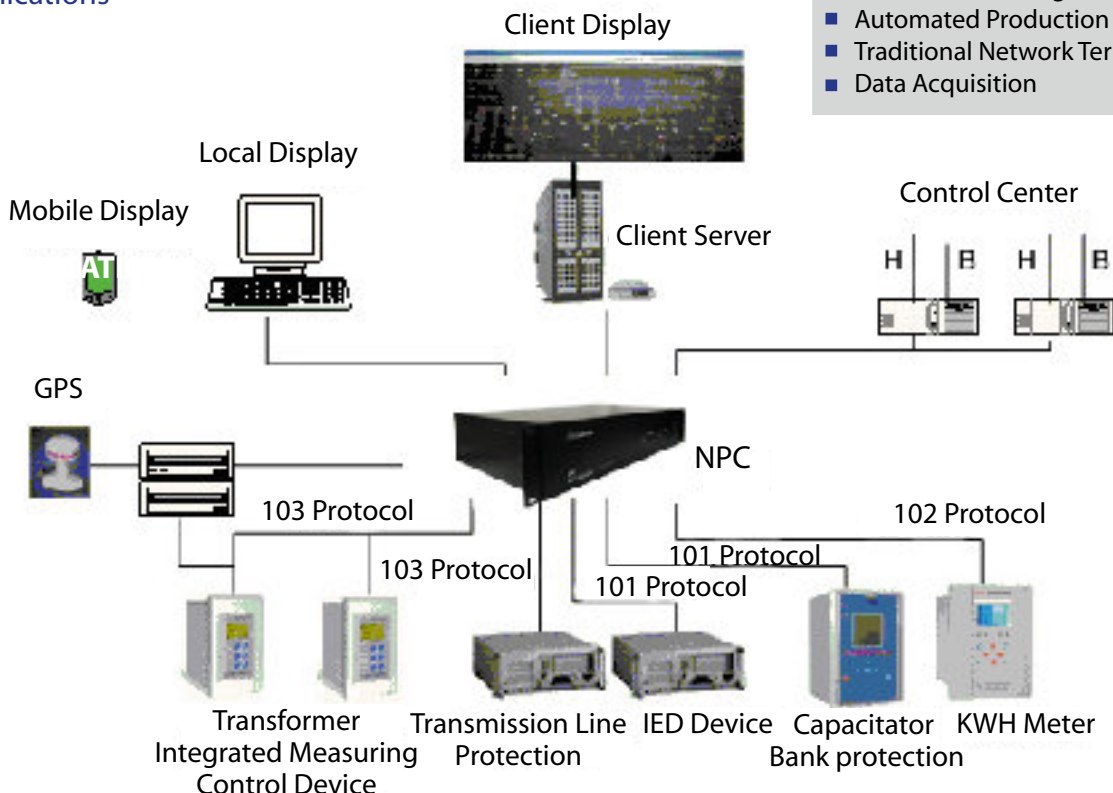
The compact 19" Rack or Bench mounting chassis benefits from a completely fan-less cooling system; delivering high performance, a quiet working environment and low cost of ownership without compromise. The NPC is based on Intel Celeron M technology and provides one 10/100/1000 BaseT and four 10/100 BaseT LAN ports to provide up to 5 Ethernet connections, 8 serial ports, 2 USB 2.0 ports, a VGA port and 8 Digital Inputs/Digital Outputs. The serial communication interface plate benefits from an optional choice of connector types offering an alternative to standard D-Type connectors. The compact and stylish NPC Series can also be effectively applied in Thin Client, Network Appliance and Firewall applications

### FEATURES

- Fan-less system designed for ease of installation and maintenance.
- Intel Celeron M processors, maximum 1GHz.
- Intel® 82855/82852GM chipset
- Memory: 512MB DDR, maximum 1 GB.
- Storage Options: SATA/CF Type II
- 8 configurable (RS232/422/485) with optional serial port surge protection
- Ethernet: 10/100 BaseT x 4  
Gigabit Ethernet port x 1
- 8 Digital Inputs/Digital Outputs
- Expansion: PC104/PC104-Plus
- Optional: Screw type serial port connectors

### TYPICAL APPLICATIONS

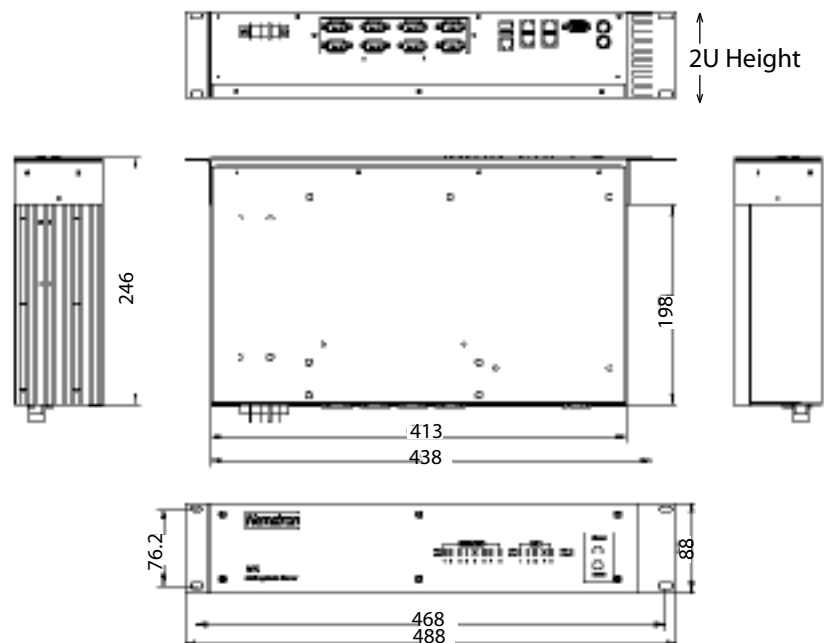
- Power Transmission System Automation
- Protocol Converter
- Front-end Communication Server
- Transportation
- Monitoring Systems
- Building Automation
- Access Control
- Security
- Attendance Management
- Automated Production Test Equipment
- Traditional Network Terminal
- Data Acquisition





SPECIFICATION	
CPU	Intel® Celeron M 600MHz, supports up to 1GHz
Memory	512M, supports up to 1GB DDR SDRAM
Display	VGA, LVDS
IDE	2.5"HD IDE x 1/ Type II CF slots
Serial Ports	Serial (RS232/422/485) COM 1-8 DB9, COM 1-8, Screw Terminal (optional)
Parallel Port	one (optional), pin-header
Ethernet	4 x 10/100 BaseT LAN, 1 x 10/100/1000 BaseT LAN
USB	2 x USB2.0
DI/DO	8DI / 8DO (optional)
Expansion	1 x PC-104, 1 x PC-104 Plus
Keyboard/Mouse	Independent PS/2 Keyboard/ Mouse
Panel Buttons	1 x Reset button, 1 x Power button
Watchdog Function	Programmable 1-255 seconds
Status LEDs	1 x LED for Power, 8 x 2 LEDs for serial ports (TxD, RxD) 1 x LED for IDE, 5 x 2 LEDs for LAN
Power Input	9-27VDC/100-300VAC (optional)
Power Input Connector	Screw Terminal
Operating System	Windows 2000 / XP / CE / XP Embedded, Linux
Approvals	CE, FCC, UL, RoHS
Operating Temperature	-10°C - 55°C
Storage Temperature	-20°C ~ 80°C
Relative Humidity	10% - 90% (without condensation)
Dimensions	438mm x 249mm x 88mm
Weight	5 kg
Colour	Black as standard/custom available.

## NPC - Dimensions



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