

# TW-IDU-NODE 2- UPS

## SMART ENERGY STATION

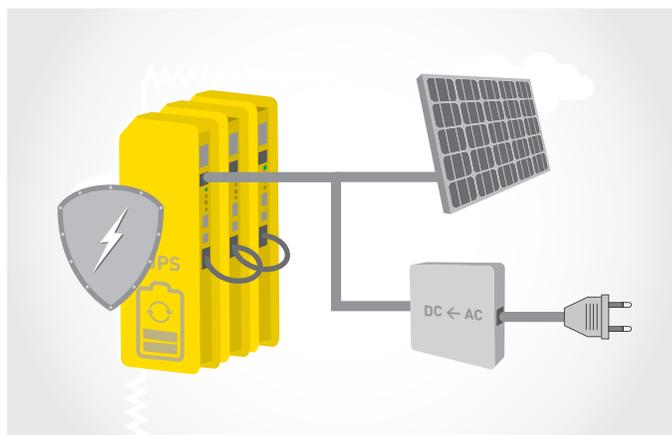
Able to manage multiple energy sources and to protect your devices. second edition introduce the capacity of control and collect datas by remote using web interface.



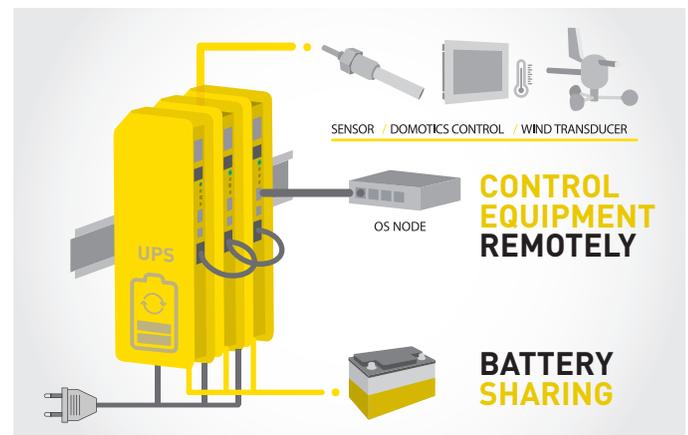
Thanks to smart Gigabit PoE supply every standard load such as PoE+, 802.3af & 802.2at devices, IP-Cameras, IP-Phones, PBXs, Access Point, Switches, CPEs, Routers, providing Output Voltage in case of black out. Output supply is selectable in continuous way between 24V up to 52V.



Ideal for using during installation it allow to connect and power your PoE device for a quick setup. The integrated 3100 Li Ion battery can be easily recharged with DC input.



Integrated strong Lightning Protection from overvoltage and shocks. Software overcurrent protection when overloaded and/or output shortcircuit occur. Lightning protection 25KA (8/20us) differential mode. Polarity reversal protection. Overvoltage protection up to 43Vdc.



Device performance and all is linked on CAN Bus can be controlled in remote way by the OS Node operating system. The management can be realized with PC, Tablet and smartphone. In clustered environment sharing and recharging one battery with more PoE, no SPOF technology (Single Point Of Failure)

## POWER SUPPLY

AC-DC	24V OUT 200 ÷ 240 VAC 47 ÷ 53 Hz 0,3A Max (included)
DC Input	9V~36V (rated voltage suggested 24V)
LAN Input Voltage	up to 36Vdc

## OUTPUT CURRENT & VOLTAGE

PoE Voltage	24 ÷ 52Vdc programmable by means shell interface
PoE Maximum Current	2A@24V - 1A@48V
PoE Maximum Power	50W
Battery Charging Voltage	Programmable charging method using shell interface

## OVERVOLTAGE AND SURGE PROTECTION

PoE Output	Software overcurrent protection when overload and/or output shortcircuit occur.
Data & Power Line	Lightning Protection: 25KA (8/20us) differential IEC 61000-4-2 (ESD) ± 15KV (air)/± 8KV (contact) IEC 61000-4-4 (EFT) ±±2KV-40A (5/50ns)
DC Input	Polarity reversal protection. Over-voltage protection up to 43Vdc.

## STATUS LED

Green <sup>1</sup>	TW-Idu-node ON
Red <sup>2</sup>	Battery connected or TW-IDU is powered by battery
Red <sup>3</sup>	USB is connected and TW-IDU has been identified as HOST
Orange <sup>4</sup>	TW-IDU is communicating over USB or CAN Bus

## LAN POE

LAN	10/100/1000 Mbps (Gigabit)
PoE output	24V/48V selectable by means external jumper (maximum rated voltage 51V) maximum PoE Power
PoE	In Line/off pair 802.3at

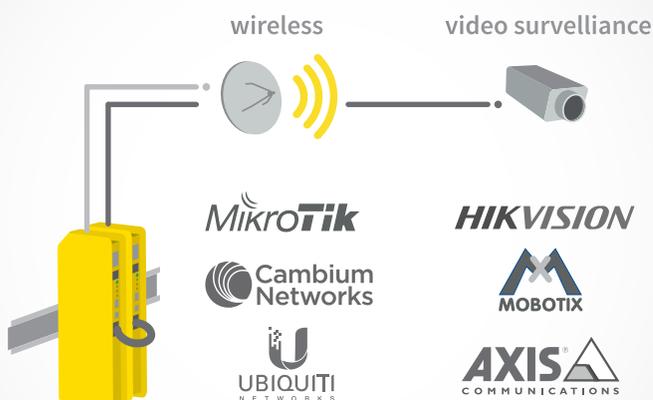
## BATTERY SPECIFICATION

Type	Internal Li Ion
Voltage	14.7 VdC
Capacity	3100 mAh

## EXTERNAL CONNECTION PORT

CAN Bus Port	1x Port 2.0 B up to 1 Mbit/sec
CAN Bus Termination	1x Port with 120 Ohm termination
USB Port	1x miniUSB 2.0 type A (device) for fw upgrade & data logging
24V-48V Selection Port	2x Port with jumper connection
Standard Ethernet Port	Gigabit Eth 10/100/1000 base T
1Wire Port	1x 1WIRE Port: standard speed 15Kbps. Up to 8 device connected
Ground Port	1x Earth clamp
DC Port	1x DC power jack 5A 24Vdc ø2mm

## TESTED AND MOST USED WITH



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## TEMPERATURE & DIMENSIONS

Operating	0°C~+50°C
Storage Temperature	-20°C~+80°C
Dimensions	77 x 220 x 30 mm
Weight	0.4 Kg.

## SUPPORT & MORE DOCUMENTATION

Web Site	<a href="http://www.twidunode.com">http://www.twidunode.com</a>
email	<a href="mailto:support@townet.it">support@townet.it</a>

