### **RADWIN Smart-Node**

Smart-Node with input power of 100-240 VAC, standard battery



#### RW-8019-1100

#### **Product Description**

RADWIN Smart-Node is an outdoor communications and power solution that reduces costs and accelerates the roll-out of smart-city, IoT and telecom projects. The all-in-one Smart-Node solution offers a wide variety of power and networking interfaces including fiber and an array of radio technologies to connect multiple devices such as CCTV cameras, Wi-Fi access points and IoT sensors.

Bridging the gap between broadband and IoT applications, Smart-Node enables easy integration with 3rd party devices to support multiple applications ranging from city surveillance, smart-lighting, waste management, smart-metering and more.

Smart-Node is a remarkably compact, IP-67 protection grade solution that guarantees low visual impact for street level deployments and high reliability when exposed to extreme temperatures and tough environments.

#### **Product Highlights**

- 240W Power supply (100-240V AC input)
- Managed switch: 5 Gigabit PoE ports (802.3 af/at, at+(60W) and Passive PoE 24V/56V)
- Fiber/copper combo port (SFP/RJ-45)
- Communications and power management
- UPS (Lithium-ion battery)
- DC output for external devices (12V/24V)
- Alarms IN/OUT (Dry contacts)
- Internal interfaces for 3rd party devices integration (Cellular, Wi-Fi, IoT gateways, etc.)
- Weather proof enclosure IP67

# RADWIN

## **Product Specifications:**

Power	
Power Supply	240W (100-240V AC input, 50/60Hz 3.5A)
UPS Backup	- 2.5A/h Lithium-ion battery (120W/h at full load)
	- Charging temperature 0°C to 30°C/ 35°F to 86°F (for extended range, please contact RADWIN)
	- Discharging temperature -10°C to 45°C / 14°F to 113°F (at full load)
	- 500 charging cycles at 20°C / 68°F (may vary according to environment conditions)
Power Protections	- Over/under voltage
Tower Hotections	- Short circuit
	- Battery low voltage disconnect
	- Battery over charge
	- 10kV/5kA and IEEE C62.41.2 max power surge protection
	- Discharge current, 8/20µs 10kA max Ethernet surge protection
Ports	
PoE1	- RJ-45
	- Ethernet
	- 802.3 af/at/at+(60W)or 56V Passive PoE
PoE2	- RJ-45
	- Ethernet
	- 802.3 af/at/at+(60W)or 56V Passive PoE
PoE3	- RJ-45
	- Ethernet
	- 802.3 af/at(56V-15/30W) or 24V passive PoE
PoE4	- RJ-45
	- Ethernet
	- 802.3 af/at(56V-15/30W) or 24V passive PoE
PoE5 (combo port with SFP)	- RJ-45
	- Ethernet
	- 802.3 af/at/at+(60W)or 56V Passive PoE
SFP (combo port with PoE5)	SFP, Fiber
DC	12/24V output power
ALM-IN	2 dry contacts - input (triggered by short circuit)
ALM-OUT	2 dry contacts - output (up to 60VDC, up to 1A load)
Audio (RJ12)	Not supported in this version. Contact RADWIN for more information
Serial (RJ45)	Not supported in this version. Contact RADWIN for more information
ANT	N-Type antenna port for 3rd party equipment
	N-Type antenna portion sid party equipment
Networking Switch Configuration	- IEEE 802.3: 10BASE-T, IEEE 802.3u: 100BASE-T, IEEE 802.3ab: 1000BASE-T
Switch configuration	- VLAN (Transparent/Aware, Port VLAN mode: Access/Trunk, port VLAN ID)
	- SNTP. NTP client
	- MAC Addresses: 1k
	- SNMP polling of traffic, including read / write
	- Report traffic per second, per port
	- Watchdog on IP (ping), reset port if not responding
Management and Configuration	Watchdog of in (ping), reset port infor responding
Interface	Web Management interface, SNMP V1
Configuration	- Switch PoE port On/Off
Computation	- Graceful power degradation by priority
	- DC-OUT port power configuration (12V/ 24V)
	- Trap destinations
	- Alarms In/Out management
Monitoring	- Ports status: connected ports, PoE on/off, power consumption, voltage (56V, 24V), priority, VLAN and traffic
Wontoring	- Power management information: power source, lithium battery status, battery time remaining, supplied
	current and voltage and temperature
	- Events
	- Tamper sensor (trap)
Management and maintenance	
Management and maintenance	- Remote monitoring and management
	- SW update
	- Backup and Restore
	- Factory default
	- Hard reset
	- Power source status LED
	- Remote reset of PoE ports

Internal Interfaces for 3rd Party Devices Integration		
Power and communication	- RJ-45. Ethernet	
interfaces available for 3rd party		
devices	- 12V/15W output power	
Internal Space for 3rd party	47(h)x116(w)x160(d)mm	
Equipment		
Maximum power consumption	15W (under full Smart-Node power consumption load)	
for 3rd party Equipment	· (, ,,,,,,,	
Antenna Port	N-Type antenna port (SMA internal interface)	
IoT Port	General purpose port	
3G/4G Cellular module and	Not supported in this version. Contact RADWIN for more information	
micro SIM slot		
Mini PCI express	Not supported in this version. Contact RADWIN for more information	
SD Card	Not supported in this version. Contact RADWIN for more information	
USB 3.0	Not supported in this version. Contact RADWIN for more information	
Mechanical		
Dimensions	379(h) x 309(w) x 115(d) mm	
Weight	7.4 Кg	
Installation types	Pole mount, Wall mount	
Environmental		
Operating Temperatures	-40° to 60°C / -40° to 140°F (Backup UPS operating temperature is -10°C to 45°C / 14°F to 113°F)	
Degrees of Protection	EN/IEC 60529, IP67	
Safety		
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22	
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22	
EMC		
FCC	47 CFR Part15, Subpart B, Class B	
CE	EN 301 489-1, EN 301 489-4, EN 301 489-17, EN 300 386	
CAN/CSA-CEI/IEC	CISPR 32:2015, Class B	
AS/NZS	CISPR 32:2015, Class B	

#### Ordering Info

Part Number: RW-8019-1100

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This data sheet shall be used only for information purpose.

The products and specifications described herein are subject to availability and may change without prior notice.

