

ACKCIO GATEWAY

Code : N640



- The Ackcio BEAM-GW Gateway is the central communication hub of Ackcio's wireless monitoring ecosystem, connecting all BEAM nodes to cloud or local data platforms via secure and reliable channels.
- It manages data acquisition, processing, and transmission using Ackcio Snape, an intelligent on-Gateway data and device management software that enables real-time visualization, diagnostics, and system configuration.
- The Gateway coordinates Ackcio's proprietary Ackcio Mesh network, supporting up to 50 nodes and 12 hops, ensuring long-range and self-healing communication even in complex or obstructed environments.
- Equipped with multiple communication interfaces including 3G/4G cellular, Wi-Fi, Ethernet, and GPS, the BEAM-GW provides flexible connectivity options for both remote and site-based monitoring systems.
- The unit incorporates a quad-core 64-bit CPU with industrial-grade storage, integrated modem, and optional solar power capability, making it suitable for long-term autonomous operation in the field.
- Designed for durability, the Gateway features an IP67-rated die-cast aluminium enclosure and operates reliably across a temperature range from -40°C to $+80^{\circ}\text{C}$.

- The built-in real-time clock, internal sensors, and external RTC ensure precise time synchronization and performance stability.
- Advanced power management allows operation from 12 V or 24 V DC supply, with backup from a high-capacity Li-SOCl₂ battery or solar-charged lead-acid batteries.
- Status LEDs and on-board control buttons simplify local inspection and diagnostics, while the Ackcio Nimbus app provides mobile configuration and network monitoring.
- This gateway serves as the key interface between field instrumentation and data management systems, offering secure AES-128 encrypted end-to-end data transfer for industrial and geotechnical monitoring applications.

TECHNICAL SPECIFICATIONS

up Battery: 1 × D-cell Li-SOCl₂ 3.6 V, 19 Ah

- Typical Current Drain: 250 mA (operation), max 3 A
- Solar Option: 12/24 V, 80 W panel minimum, 18 Ah lead-acid battery recommended
- Interfaces: USB 2.0 Micro B, LEDs (SYS, NET, RF, WF), buttons (Wi-Fi toggle, Shutdown)
- Firmware: Ackcio Mesh
- Software: Ackcio Snape (on-Gateway), Ackcio Nimbus (mobile configuration)

ORDERING INFORMATION

will be added soon ...

OTHER PHOTOS

