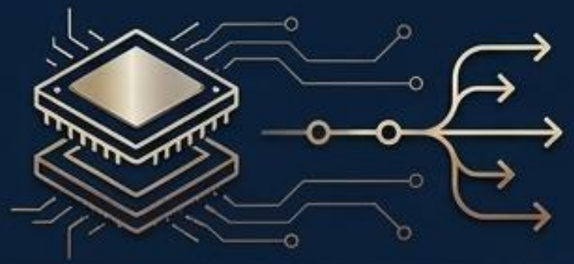
MIPOT

Next-Generation wM-Bus Connectivity

The 32001605BE8SW LGA Module. Engineered without compromise.

Precision Italian Engineering for the IoT Era

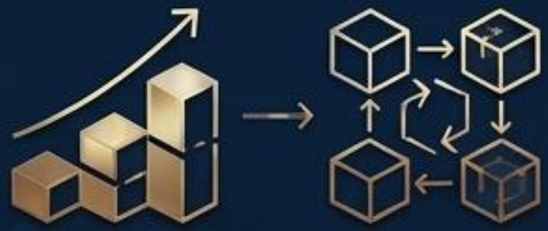


Unmatched Experience

- **50+** years of electronic engineering legacy.
- Over **30 million** modules deployed globally.

End-to-End Capabilities

- From initial design and antenna engineering to final mass production.
- Centralized in our **5,000 sqm** high-tech facility in Cormons, Italy.



Adaptive Agility

- Seamless scaling from High Mix / Low Volume prototypes to full Mass Production.
- Total manufacturing control for faster time-to-market.

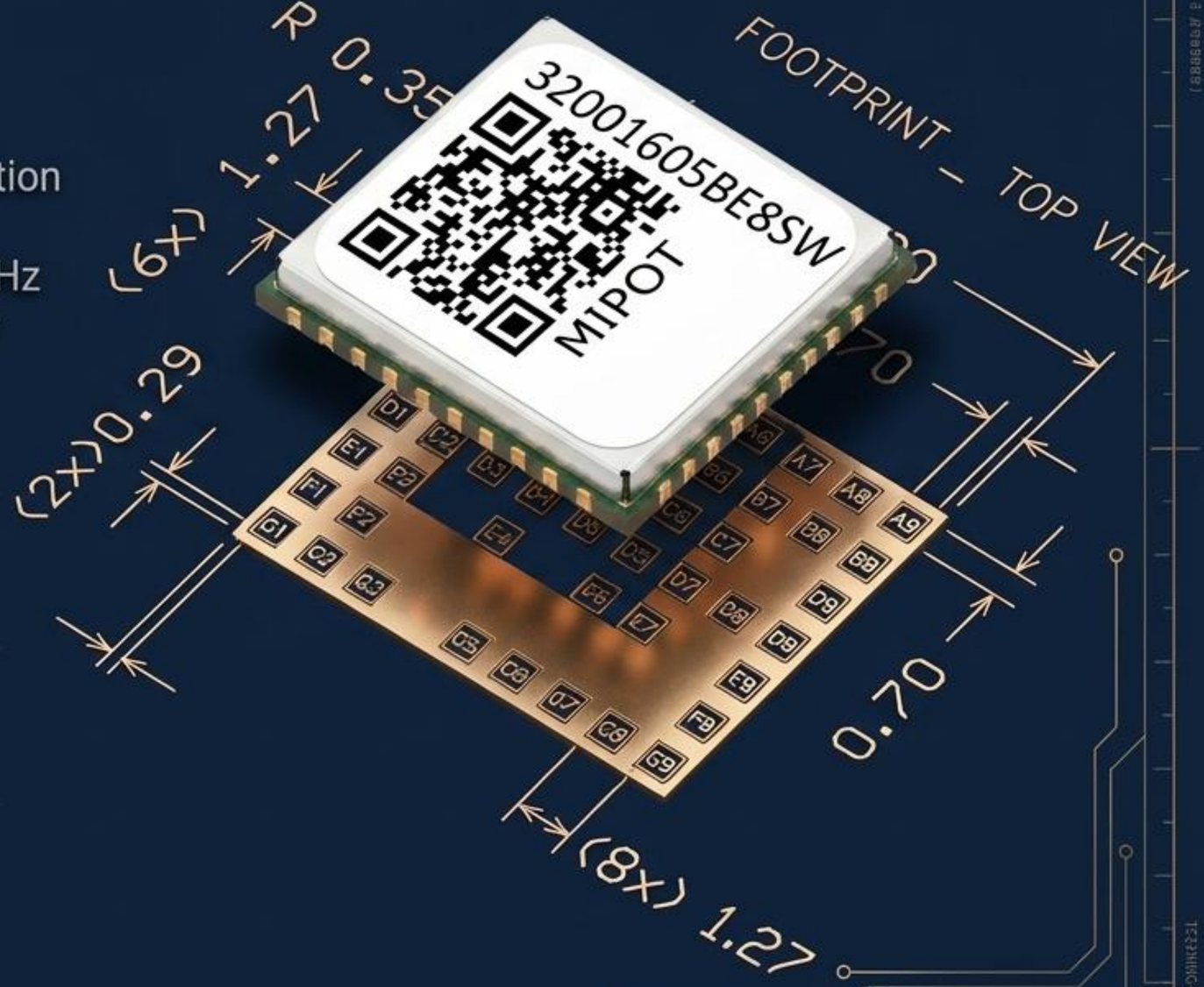
The wM-Bus Solution Without Compromise

Designed for the rigorous demands of next-generation metering, the 32001605BE8SW is a host-based Wireless M-Bus transceiver operating in the 868 MHz SRD Band. It is engineered specifically to empower highly integrated, battery-operated solutions for water, gas, heat, and electricity metering.

Application Target: Optimized for both endpoint meters and data concentrator devices.

Physical Footprint: Ultra-compact LGA pattern for seamless PCB integration.

Development Speed: Accelerates complex, one-way or two-way network development.

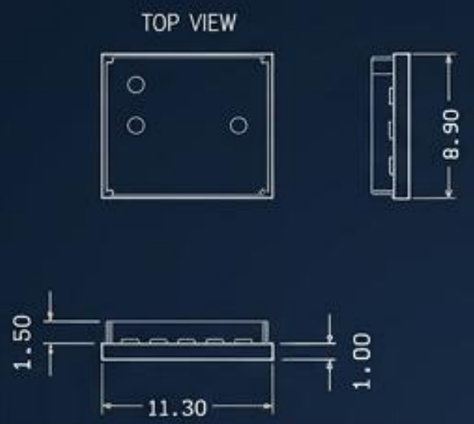


Uncompromising Performance Across Every Dimension

Mechanical Profile

Extremely compact footprint.

11.3 mm × 8.9 mm × 1.5 mm



Power Efficiency

Engineered for multi-year battery life (2.3 V – 3.6 V supply).

Shutdown Current: 14 nA

Deep Stop (Sleep) Current: 1.5 µA

RF Performance

Maximum Output Power: +14 dBm (50 Ω load)

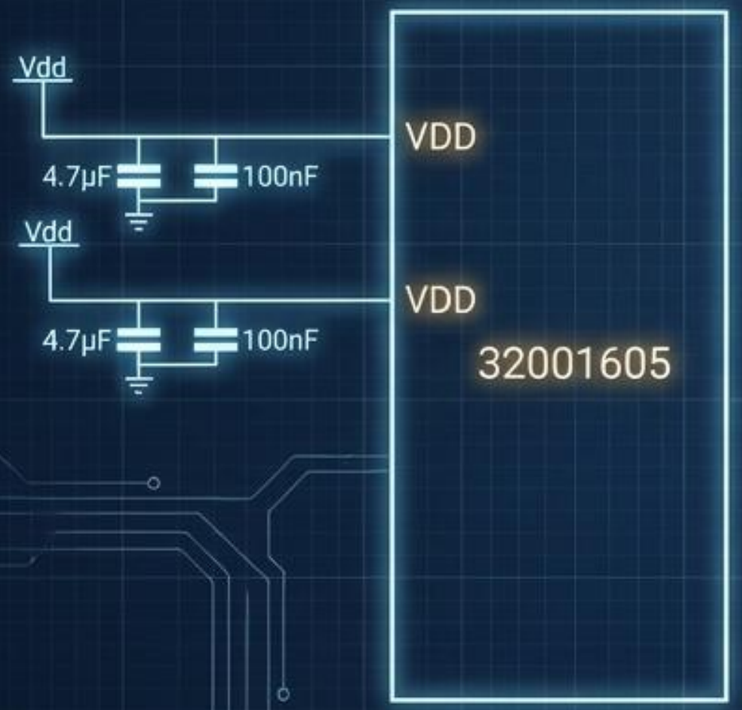
Peak Receiver Sensitivity: Up to -115 dBm (Mode R)

Operational Flexibility

Full EN13757-4 protocol support: Modes S, T, R, and C.

Smart serial interface selector: UART, LPUART, and I²C.

Seamless Hardware Integration for Faster Time-to-Market



Rule 1:

Power Stability: Place decoupling capacitors (4.7 µF and 100 nF) as close to the module's VDD power pins as possible, prioritizing the lowest values.

Rule 2:

RF Noise Rejection: Ensure the trace connecting to the RF pin (F1) maintains a strict 50 Ω impedance. Connect surrounding GND pads without thermals for maximum performance.