The Rapidise BLE Beacon product line utilizes both **Inplay** and **Nordic** chipsets, with specific modules tailored to different use cases like environmental monitoring, asset tracking, and indoor navigation.

Below is a detailed breakdown of the modules and technical advantages for each beacon variant:

1. Rapidise N1 BLE Beacon

Module/Chipset	Specification	Technical Advantage
Main Chip	**Inplay IN100 D1**	Utilizes **Bluetooth 5.3**. This is the **entry-level, compact** model.
Power/Battery	**CR2032** Li-ion coin cell battery	Achieves a lifetime of **3+ years** despite the smaller battery size, making the device very lightweight (9.7 g).
Sensors/Protection	No sensors	Features a high **IP67 waterproof rating**, ensuring durability and efficiency in various environmental conditions.
Configuration	Non-configurable (fixed firmware)	Supports iBeacon, Eddystone (UID, URL, TLM), and Custom advertising formats.

2. Rapidise N2 BLE Beacon

Module/Chipset	Specification	Technical Advantage
Main Chip	**Inplay IN100 Q1**	Utilizes **Bluetooth 5.3**. This model is designed as the "powerhouse for tracking and monitoring critical goods".
Integrated Sensors	**Temperature & Humidity**	**Specialized for Environmental Monitoring**. Crucial for monitoring temperature-sensitive goods in environments like the cold chain.
Power/Battery	**CR2450** Li-ion coin cell battery	The larger CR2450 battery ensures **3+ years** of continuous life while running sensor operations.
Configuration	Non-configurable (fixed firmware)	Broadcasts Temperature & Humidity sensor data every 5 seconds (default setting).

3. Rapidise N3 BLE Beacon

Module/Chipset	Specification	Technical Advantage

Main Chip	**Nordic nRF52805**	Utilizes **Bluetooth 4.2 Compliant** and **Bluetooth 5.0 Certified**.
Features	**1 Red LED Indicator**	The LED is present for various status indications.
Advertising Formats	Supports 6 different types of advertisement formats	Includes standard formats plus **SOS**.
Customization	Customizable Configurations	Configuration is available on **Android** to customize settings like beacon name, Tx power, advertising format, and interval.

4. Rapidise N4 BLE Beacon

Module/Chipset	Specification	Technical Advantage
Main Chip	**Nordic nRF52820**	Utilizes **Bluetooth 4.2 Compliant** and **Bluetooth 5.2 Certified**. This is the most feature-rich beacon.
Integrated Sensors	**Temperature, Humidity, Ambient Light Sensor, and 3-axis accelerometer (IMU)**	The **IMU** enables advanced features like **Motion Detection** and **Fall Detection**.
Features	**SOS Button** (PCB-mounted switch) and **1 Red + 1 Green LED**	The button can be pressed to trigger an **SOS packet broadcast**.
Firmware Update	**OTA Update (Nordic DFU)**	Allows for firmware to be updated over the air, providing flexibility and remote management.
Configuration	**Available on Android**	Fully configurable, allowing customization of Device Name, Tx Power, Advertising Interval, and Sensor data broadcast interval.

5. Rapidise N14 BLE Beacon

Module/Chipset	Specification	Technical Advantage
Main Chip	**Inplay IN100 D1**	Utilizes **Bluetooth 5.3**. This model is similar to the N1.

Power/Battery	**CR2450** Li-ion coin cell battery	The N14 provides **longer battery life** by using the larger CR2450 battery (compared to N1's CR2032).
Sensors/Protection	No sensors	Features an **IP67** rating (also listed as IP65 in other sources), making it highly resistant to ingress.

Key Takeaway

The Rapidise product line strategically aligns the chipset and feature set with the application: the **N4 (Nordic nRF52820)** acts as the advanced sensor and safety hub, allowing remote updates and motion detection; the **N2 (Inplay IN100 Q1)** is optimized purely for environmental data collection; and the **N1/N14 (Inplay IN100 D1)** are optimized for cost-effective, durable, long-life, and non-configurable **Indoor Navigation** and Proximity Marketing.

This modular approach is similar to a tool chest: instead of one multi-tool, they offer specialized implements (N2 for temperature monitoring, N4 for advanced safety, N1/N14 for basic tracking) built on reliable component platforms (Nordic or Inplay) to efficiently address diverse IoT needs.