

Comparison between 5020B, 5020M, and 5021P

	5020B	5020M	5021P
			
Stand-alone Capability	YES	NO	NO
Exterior			
- Dimensions	250(w)x110(h)x348(d) mm	200(w)x70(h)x220(d) mm	100(w)x30(h)x140(d) mm
- Weight	5 kg	2.2 kg	0.5 kg
- Display	5", 800x480, 16M color, TFT LCD	2.8", 256x64, 16 gray, OLED	4 LED indicators
- Front Keypad	YES	NO	NO
- Power Input	100 to 240 VAC, 50/60Hz	12V/3A VDC (AC/DC adapter provided)	5V/0.5A (USB-C)
- Control Interface	Ethernet, RS-232C	Ethernet, RS-232C	Ethernet, USB-C (VCOM)
Frequency Bands			
- 400MHz to 510MHz	Included	Selectable by Band	Selectable by Region
- 862MHz to 960MHz	Included	Selectable by Band	Selectable by Region
RF Power Level			
- Output Power	0dBm to -150dBm	0dBm to -150dBm	0dBm to -30dBm
- Input for Power Measurement	+30dBm to -80dBm	+30dBm to -80dBm	+30dBm to -80dBm
- Input for Frequency Measurement	+30dBm to -50dBm	+30dBm to -50dBm	Not available
Operational Modes			
- End-device Test	Selectable	Selectable	Included
- Gateway Test	Selectable	Selectable	Not available
- Non-signaling Test	Included	Selectable	Not available
Protocol Compliance Tests (end-device only)			
- LoRaWAN Pre-Certification Tests	Optional	Optional	Optional
- Operator Pre-Certification Tests	Optional	Optional	NO
RF Performance Tests			
- Receiver Sensitivity Test	YES	YES	NO
- Output Power Measurement	YES	YES	NO
- Carrier Frequency Measurement	YES	YES	NO
- LBT Test	YES (2020A required)	YES (2020A required)	NO
- Gateway Non-regression Test	YES (2020A required partly)	YES (2020A required partly)	NO
Link Analyzer			
- Message Logging and Analysis	YES	YES	YES
- MAC Commands Transmission	YES	YES	YES
- Application/User Data Transmission	YES	YES	YES
- User Script Generation	YES	YES	YES
Functionalities			
- FUOTA Test	YES	YES	NO
- Manufacturing Test (MFG/NST)	YES	YES	NO
Compatibility with 5020x PC Application Software			
- Pre-Certification Test	YES	YES	YES
- RF Performance Test	YES	YES	NO
- Link Analyzer	YES	YES	YES
- Functions: NST, MFG, FUOTA	YES	YES	NO