



PROXIMITY TECHNOLOGIES SOLUTION OVERVIEW

Netclearance (NCS) offers a complete set of technical solutions and services to meet the needs of proximity-based use cases. The solution components can be assembled into a solution architecture that spans customer-deployed hardware to complex data analytics and content management software

PROXIMITTER SOLUTION SUITE

Proximity Technologies' PROXIMITTER hardware is provided in various packaging configurations and can be deployed to support customer engagement via a mobile device application or object presence tracking via a standalone PROXIMITTER device

PROXIMITTERX1 — Ideal for both engagement and presence applications. The mBeacon1 is a single transmitter beacon that can engage Bluetooth LE devices in proximity. The PROXIMITTERX1 transmits a wireless BLE signal that can be used to trigger events and engage mobile clients for all smartphone operating systems, and supports business optimization applications, e.g., logistics, workforce management, IoT sensors

PROXIMITTER2-U — Perfect for engagement applications. The PROXIMITTER2-U is a dual transmitter beacon that engages Wi-Fi and Bluetooth LE devices in proximity. The PROXIMITTER2-U transmits a Wi-Fi and BLE signal simultaneously that can trigger events and engage mobile clients regardless of smartphone operating systems

PROXihub — Combines peer-to-peer PROXIMITTER networking with network gateway features. The PROXihub extends the PROXIMITTER family by offering presence and engagement services with and without smartphone applications. The PROXihub is the industry's first BLE-to-Wi-Fi gateway

PROXIMITTER-L5 — First offline analytics and engagement beacon with TCP/IP connectivity via Wi-Fi or Ethernet. Supports Apple's iBeacon profile and Wi-Fi analytics in a small form-factor and provides remote monitoring and maintenance through Internet connectivity

FOR MORE INFORMATION CALL

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TECHNICAL SPECIFICATIONS

	PROXIMITTERX1	PROXIMITTER2-U	PROXiHub	PROXIMITTER-L5
DIMENSIONS	USB 18 x 13 x 5 mm (0.7 x 0.51 x 0.2 in) Lithium Battery (Coin Cell 2477) 38 x 28 x 10 mm (1.5 x 1.1 x 0.4 in) High Capacity Lithium Battery (19,000mAh)	USB 81 x 36 x 8 mm (3.1 x 1.41 x 0.3 in) 2AA Battery 74 x 45 x 25 mm (2.9 x 1.7 x 0.98 in)	USB 81 x 36 x 8 mm (3.1 x 1.41 x 0.3 in) 2AA Battery 74 x 45 x 25 mm (2.9 x 1.7 x 0.98 in)	PoE 83 x 83 x 34 mm (3.26 x 3.26 x 1.33 in)
WEIGHT	0.1 oz. / 2.8 g (USB) 0.6 oz. / 18 g (with Lithium Battery)	0.75 oz. / 21 g (USB) 2.8 oz. / 80 g (with 2 AA Batteries)	0.75 oz. / 21 g (USB) 2.8 oz. / 80 g (with 2 AA batteries)	4.17 oz. / 118 g (PoE)
PROCESSOR	ARM Cortex M0 MCU	Atmel MCU	Atmel MCU	Freescale i.MX 6SoloLite 1Ghz
OPERATING SYSTEM	n/a	n/a	n/a	Linux
REMOVABLE STORAGE	n/a	n/a	n/a	SD SDHC Card (4GB, 32GB, 64GB, 128GB)
WI-FI FEATURES	n/a	TCP and UDP HTTP/HTTPS DHCP and DNS Client Mode AP Mode WEP, WPA, WPA2	TCP and UDP HTTP/HTTPS DHCP and DNS Client Mode AP Mode WEP, WPA, WPA2	TCP and UDP HTTP/HTTPS DHCP and DNS Client Mode AP Mode WEP, WPA, WPA2
BLUETOOTH LE FEATURES	Apple's iBeacon L2CAP, ATT, GATT, GAP Peripheral and Central Mode	Apple's iBeacon L2CAP, ATT, GATT, GAP Peripheral and Central Mode	Apple's iBeacon L2CAP, ATT, GATT, GAP Peripheral and Central Mode	Apple's iBeacon L2CAP, ATT, GATT, GAP Peripheral and Central Mode
BLUETOOTH CLASSIC FEATURES	n/a	n/a	n/a	Enhanced Data Rate (EDR)
ENVIRONMENT	Operating Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: 5 to 95% Non-Condensing	Operating Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: 5 to 95% Non-Condensing	Operating Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: 5 to 95% Non-Condensing	Operating Temperature: -4°F to 158°F (-20 °C to 70 °C) Humidity: 5 to 95% Non-Condensing
RADIO FREQUENCIES	Wi-Fi: n/a Bluetooth LE: 2.4GHz	Wi-Fi: 2.4 - 5GHz Bluetooth LE: 2.4GHz	Wi-Fi: 2.4 - 5GHz Bluetooth LE: 2.4GHz	Wi-Fi: 2.4 Ghz Bluetooth LE: 2.4GHz
OUTPUT POWER	Wi-Fi: n/a Bluetooth LE: Up to 0dBm (Rx -93dBm)	Wi-Fi: up to +17dBm (Rx -97dBm) Bluetooth LE: Up to 0dBm (Rx -93dBm)	Wi-Fi: up to +17dBm (Rx -97dBm) Bluetooth LE: Up to 0dBm (Rx -93dBm)	Wi-Fi: up to +17.3 dBm (Rx -96.3 dBm) Bluetooth LE: Up to 0dBm (Rx -93dBm)
RANGE	Wi-Fi (LOS): n/a Bluetooth LE (LOS): 30-100m	Wi-Fi (LOS): 300-500m Bluetooth LE (LOS): 30-100m	Wi-Fi (LOS): 300-500m Bluetooth LE (LOS): 30-100m	Wi-Fi (LOS): 300-500m Bluetooth LE (LOS): 30-100m
POWER SUPPLY	Battery: AA or Lithium Coin Cell USB input: 5 V DC @ 500mA max Indoor Ambient Light: Amorphous Silicon (a-Si) PV cell	Battery: AA USB input: 5 V DC @ 500mA max	Battery: AA USB input: 5 V DC @ 500mA max	Power-over-Ethernet: (PoE): IEEE 802.3af Compatible DC input: 5V DC @ 1A USB input: 5 V DC @ 500mA max
EXTERNAL INTERFACES	USB Accelerometer Vibration Temperature Hall Effect Sensor Ambient Light NFC	USB UART NFC	USB UART NFC	USB/UART NFC Ethernet Wi-Fi
OPTIONAL MOUNTING OPTIONS	Adjustable Mounting Bracket Ceiling / Wall Mounting Plate USB Power Adapter (US 110v AC) Weatherproof Package Charging Clip	Adjustable Mounting Bracket Ceiling/Wall Mounting Plate USB Power Adapter (US 110v AC) Weatherproof Package Charging Clip	Adjustable Mounting Bracket Ceiling/Wall Mounting Plate USB Power Adapter (US 110v AC) Weatherproof Package Charging Clip	Adjustable Mounting Bracket Ceiling/Wall Mounting Plate Weatherproof Package
APPLICATIONS	Proximity Beacon Asset Tagging (Active RFID) Workforce Management Supply Chain Logistics IoT sensing applications	Dual mode Proximity Beacon (BLE + Wi-Fi) Proximity Marketing Wi-Fi AP/Client Proximity Payments	BLE to Wi-Fi Gateway Active RFID Reader Access Control Proximity Payments Wi-Fi AP/Client	Web based Management and Configuration Wi-Fi AP/Client/Captive Portal Active RFID Reader Wi-Fi Offline Analytics (Presence) BLE to Wi-Fi Gateway Proximity Payments