

## Etude de cas

	NRF 51	NRF24LE1
Traitement	32-bit ARM® Cortex™ M0 32-bit processor	8 bits
Protocole	Enhanced ShockBurst	Enhanced ShockBurst (ESB) - packet buffering, packet acknowledgement and automatic retransmission of lost packets. <b>But : CRC must be enabled when Enhanced ShockBurst™ is enabled</b>
Trames utilisés	Payload de 32-byte (limitation), mais peut aller jusqu'à 256 byte	Payload de 32 bits (4 bits)
Portée		100m libre, 20m urbain
Consommation	The specified current consumption is 0.6uA for System Off mode and no RAM retention, low voltage mode it is 1.6uA	8 mA - 12mA (1µA en standby)
Alimentation	Low power : 1.75 -> 1.95 (average = 1.8), else average = 3	an operating range of 1.9 to 3.6V for Vcc (the chip will be run at <b>3.3V</b> in most circumstances).
Multi pipe ?	None	Yes, a set of six parallel data pipes with unique addresses
Fréquence	frequency band at 2.400 to 2.4835 GHz, 1 MHz non-overlapping channel spacing at 1 Mbps and 250 kbps, 2 MHz non-overlapping channel spacing at 2 Mbps	bandwidth of less than 1 MHz at 250kbps, <b>1Mbps and a bandwidth of less than 2 MHz at 2Mbps</b> , 2.400 GHz to 2.525 GHz
Autres informations	2.4 GHz RF transceiver is designed and optimized to operate in the worldwide ISM frequency band at 2.400 to 2.4835 GHz	2.4 GHz RF transceivers, set of peripherals including: SPI, 2-wire, UART, 6 to 12 bit ADC, PWM and an ultra-low power analog comparator for voltage level system wake-up.
Number of I <sup>2</sup> C		
Number of SPI		

Low power voltage mode on NRF51 chips, **Est-ce assez pour utiliser toutes nos fonctions?**

REF :

[http://infocenter.nordicsemi.com/pdf/nRF51822\\_PS\\_v3.1.pdf](http://infocenter.nordicsemi.com/pdf/nRF51822_PS_v3.1.pdf)

PDF [www.nordicsemi.com/chi/content/.../nRF24LE1\\_Product\\_Specification\\_rev1\\_6.pdf](http://www.nordicsemi.com/chi/content/.../nRF24LE1_Product_Specification_rev1_6.pdf)