

# Sparrow

## CDMA/GSM/GPRS/HSPA Modems

### APPLICATIONS

- Asset Tracking
- Vehicle Tracking
- Telemetry
- Industrial/Health Monitoring
- AMR

### KEY FEATURES

- CDMA or GSM/GPRS or HSPA
- Open Python SDK for customization
- Internal/External Antenna options
- 12-24V DC Input
- Optional GPS, I/O and sensors support



### Sparrow...Latest in Modem Technology

The Sparrow family of wireless modems from Nimble Wireless incorporate the latest in CDMA/GSM/GPRS/HSPA and optional GPS technology in a compact form factor. The Modems supports AT commands over RS232 and/or optional USB interfaces. External Antenna support is available as an option for high sensitivity applications. Open Python SDK support is available to fast track integration into your target application/products.

### Optional Intelligent Interfaces

Sparrow family features multiple I/O options including up to 5 digital I/Os and 1 analog input to enable external event monitoring and control. Optional Motion /Temperature/Fluid sensors make Sparrow a logical choice for your customized M2M tracking or Telemetry application. Open Python SDK/API support is available to fast track integration into your target application/products

**Nimble Wireless**  
Realizing Wireless Dreams

# Sparrow

## Specifications<sup>#</sup>

### PHYSICAL DIMENSIONS

Y10CM/GM: 114 x 63 x 31 mm

### DATA SPECIFICATION

CDMA 1xRTT - Dual band (US/India 800/  
US1900 Mhz) - 153Kbps DL/76.8Kbps UL)  
GSM/GPRS Quad Band 850/900/1800/1900  
GPRS Class 10, upto 85.6kbps DL

### BATTERY LIFE

Optional up-to 1750mAh

### GPS (Optional)

On CDMA/HSPA versions only

### INTERFACE

Host: RS232 (USB Optional)  
Data Protocols: IPv4, TCP/IP, UDP

### CELLULAR NETWORKS

CDMA1xRTT (US Cell/PCS bands)  
GSM/GPRS (Quad band)  
HSPA ( Tri-band/Quad bands )

### ENVIRONMENT

Operating: -10C to +60C  
Storage: -20C to +75C

### POWER

DC Input: 12– 24V/1.5A

### External Sensors Support (optional)

Temperature/Motion/Fluid/Relay  
sensors & control

### CUSTOMIZATION SERVICES

Software and Hardware customization  
services available

Model	Sparrow Y10-CM	Sparrow Y10-GM	Sparrow Y10-GM
<b>DIMENSIONS</b>	114 x 63 x 31 mm	114 x 63 x 31 mm	114 x 63 x 31 mm
<b>Network</b>	CDMA	GSM/GPRS	HSPA

# Preliminary – subject to change

Version 0.5 May 2010

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