

STAR-Let200 Series

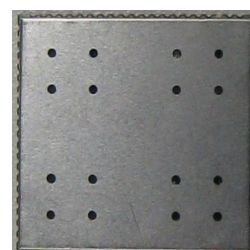
Fully Programmable GSM/GPRS MCU



STAR-Let is the most compact fully-programmable GSM/GPRS MCU. It's a complete system, just needing power, RF antenna, peripherals and application software to create a diverse range of class-leading products in automotive, security, health, telemetry and control. Its low power consumption makes it ideal for all battery-powered applications. An Eclipse-based toolkit speeds application development, and comprehensive graphical diagnostic accelerate product validation and field trials. STAR-Let 200 Series is backed-up by CCww's engineers' 22 years experience in GSM, making your M2M faster, smaller, and smarter.

Feature	Parameters
Power supply	Single supply voltage 3.3V- 5.5V
Power consumption	Configurable modes via AT-cmd Deep Sleep: 50uA DRX-5 with GPRS attach: 1.8mA Idle: 25mA Call: <160mA (1800/1900) <200mA (850/900) Class 12 GPRS: 220mA to 435mA
Frequency bands	200D : Dual-band 900/1800 200Q : Quad-band 850/900/1800/1900 Compliant to GSM/GPRS Phase 2/2+
GPRS connectivity	Class B; GPRS multi-slot class 12
Transmit power	Class 4: (2W@850/900MHz) Class 1: (1W@1800/1900MHz)
Audio interfaces	Two analog audio interfaces. One digital audio interface (PCM)
Audio speech codec modes	HR, FR, EFR, AMR
TCP/IP stack	Embedded; UDP capability; PPP
CSD/FAX	CSD: Transparent & non-transparent; Gp 3 Fax Class 1, to 14.4 Kbps
USSD	Accessible via AT-commands, up to 182 char
SMS	MT, MO, CB, Text and PDU mode
SIM interface	Supports 1.8V/3V
Extensive I/O	11 GPIO; I2C and SPI & parallel display bus; 5x5 keypad; DAC/ADC; Serial Port Mux (3GPP TS 27.010)
External antenna	Connected via antenna pad
Real time clock	Implemented; programmable alarm wake (via AT-cmd); 32KHz clock-out
Battery management	On-board; configurable; just add battery
Memory available to user	RAM: 1MB; Flash: 960KB; Flash file-system: 3MB
Application Development Environment	Graphical integrated development environment option based on Eclipse for C-based application development; sample applications; graphical debug/field-trial tools
Firmware upgrade	User application upgrade via UART interface or Over The Air (OTA)
Temperature range	Normal operation: -20 °C to +70 °C; extreme: -30 °C to +80 °C Storage: -30 °C to +85 °C
Package	82-pin castellated LGA; 27 x 29 x 2.75 mm, Weight: <5g
Evaluation Kit (SL-EVK)	Mother-board, Quad-band modem, mains adapter, software tools
Order code	SL200D (dual-band); SL200Q (quad-band); SL200QCB (on carrier board) to special order

STAR-Let 200 Series



Top view



Reverse view

For more information, contact sales@ccww.co.uk