

SLM630 Series

TD-LTE/FDD-LTE/TD-SCDMA/WCDMA/GSM Modules



SLM630 is a multi-mode LTE wireless module, via the general industrial standard interface, supports voice, SMS, data and GPS. Ultra low power consumption and extended temperature range, it can be designed in many kinds of applications, such as data card, video monitor, tablet, vehicle equipment.



Feature		Description
Mobile communication part		
Power supply		3.3V~4.2V (Typical 3.3V)
Band		TD-LTE: Band38/39/40/41 FDD-LTE: Band1/3/7 TD-SCDMA: Band34/39 WCDMA: Band1/2/5 GSM: Band5/8/3/2 GPS L1: 1575.42MHz
Data	TD-LTE	Rel 9 Cat3 TD-LTE 61Mbps/18Mbps
	FDD-LTE	Rel 9 Cat3 FDD-LTE 100Mbps/50Mbps
	DC-HSPA+	42Mbps/5.76Mbps
	HSPA	7.2Mbps/5.76Mbps
	WCDMA	384kbps/384kbps
	TD-HSPA	4.2Mbps/2.2Mbps
	TD-SCDMA	384kbps/384kbps
	EDGE	236.8kbps/236.8kbps
	GPRS	85.6kbps/85.6kbps
	CSD	WCDMA CSD: 57.6kbps. GSM CSD: 14.4kbps
	TCP/IP	Embedded TCP/IP protocol stack
Voice		HR, FR, EFR, AMR, DTMF, Caller ID, Forwarding, Call waiting, Multi call
SMS		MO, MT; CB; support Text and PDU mode
MMS		Outside AP requires the MMS protocol
GNSS part		
Parameters	Item	Performance
Accuracy (Open sky)	Horizontal	<2m(50%); <5m (90%)
	Altitude	<4m (50%); <8m (90%)
	Velocity	<0.2m/s
Acquisition time	Cold start	32s
	Warm start	29s
	Hot start	1s
Sensitivity	Acquisition	-145dBm
	Tracking	-161dBm
Baud rate		9600bps
GPS receive		12 Channels, GPS L1(1575.42MHz), C/A code
Data update rate		1Hz
Protocols		NMEA 0183

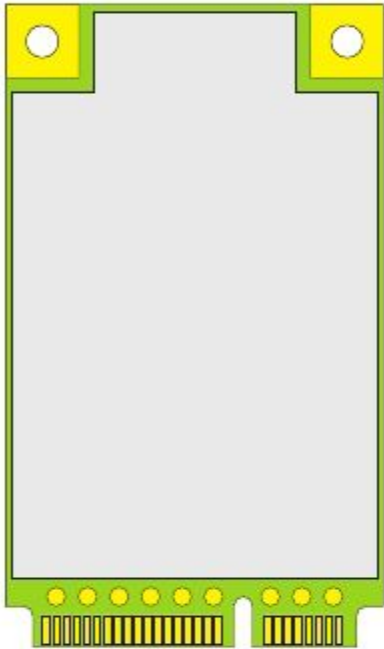
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SLM630 is a mobile broadband access module, access rate can support:

- LTE: TD-LTE(61Mbps/18Mbps)
- LTE: FDD-LTE(100Mbps/50Mbps)
- 3G: TD-SCDMA up to support TD-HSPA(4.2Mbps/2.2Mbps)
- 3G: WCDMA up to support DC-HSPA+(42Mbps/5.76Mbps)
- 2G: GSM up to support EDGE(236.8kbps/236.8kbps)



Feature	Description
Common parts	
Temperature	Normal operation: -20°C~+70°C Restricted Operation: -30°C~+75°C Storage temperature: -40°C~+90°C
Humidity	5%~95%
ESD	VBAT, GND: Air ±8KV, Contact ±4KV RF interface: Air ±8KV, Contact ±4KV Else ports: Air ±4KV, Contact ±2KV
Max power RF transition	Class 4 (2 W) for GSM850/900 Class 1 (1 W) for GSM1800/1900 Class E2 (0.5 W) for EDGE850/900 Class E2 (0.4 W) for EDGE1800/1900 Class 3 (0.25 W) for WCDMA/TD-SCDMA /TD-LTE/FDD-LTE
Current consumption	Off mode: 50μA Sleep mode: <4mA Idle mode: <40mA Voice mode: <300mA Data mode: <800mA
connector	PCI express Mini Card connector HRS U.FL-R-SMT-1 RF connector ×3
PCI express Mini Card connector	Power Supply USB2.0 High-Speed interface UART USIM/SIM PCM I2C SPI Reset Netlight Sleep/awake Fly mode interface
Antenna interface	1 WWAN MAIN RF connector, impedance of 50Ω 1 WWAN DIV RF connector, impedance of 50Ω 1 GPS RF connector, impedance of 50Ω
Dimensions	51.0×30.0×4.8mm
Weight	<11.5g
Approvals	RoHS