

PRODUCT RANGE



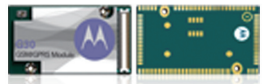
Cellular PRODUCT RANGE

GSM|GPRS

Embedded/Compact

GSM|GPRS

G 30
Compact/Embedded



Compact

GSM|GPRS

G 24-LITE
Compact



EDGE

Compact

EDGE

G 24-EDGE
Compact



EDGE

G 24-JAVA
Compact



UMTS|HSPA

Compact

UMTS|HSPA 5.76/7.2

H 24
Compact



CDMA|1xRTT

Compact

CDMA|1xRTT

C 24 CDMA
Compact



GSM|GPRS

Embedded/Compact

GSM|GPRS



G 30


Compact/Embedded

- Quad Band GPRS
- Extended RF Sensitivity
- Embedded TCP/IP Stack
- Extended Temperature Range
- RoHS Compliant
- LGA Package
- Programming in C
- Embedded SIM

The G30 series features both an LGA form factor and an optional 70-pin B2B connector for various design possibilities. The optional connectorized platform maintains the same mounting design as the 24 Family, so you can leverage the G30's rich feature set, but remain with your connectorized design. The G30basic is a true cost-effective M2M solution with a rich set of features like quad-band GSM/GPRS, an extended operating temperature, UART MUX, jamming detection, and embedded data protocols.

Compact

GSM|GPRS



G 24-LITE

Compact


- Quad Band GPRS
- GPRS Class 10
- Ultra Compact
- RoHS Compliant
- Extended RF Sensitivity
- Embedded TCP/IP Stack

The lite version of the G24 suits the basic needs of large systems, utilizing wireless capabilities to automate their services. Ideal for customers looking to improve their business operations through M2M.

EDGE

Compact

EDGE



G 24-EDGE

Compact

- Quad Band GPRS
- EDGE Class 10
- GPRS Class 10
- Ultra Compact
- RoHS Compliant
- Extended Temperature Range
- Extended RF Sensitivity
- Embedded TCP/IP Stack
- Embedded FTP and SMTP Client
- SSL - Secure Connection
- 24 Family Form Factor

The robust G24 module features high-speed, quad band GSM/GPRS/EDGE, powering reliable nonstop connectivity. With rich functionality like built-in internet & security protocols, exceptional RF performance, and a design that allows the host to leverage its CPU and memory, the G24 is ideally suited for a wide range of M2M applications.

EDGE



G 24-JAVA

Compact

- Quad Band GPRS
- EDGE Class 10
- GPRS Class 10
- Ultra Compact
- RoHS Compliant
- Extended Temperature Range
- Extended RF Sensitivity
- 24 Family Form Factor

The award winning G24-Java serves as a powerful stand alone controller, providing developers a Java based software platform that enables the host device to draw on the G24's CPU, memory and I/Os. This advanced platform simplifies the development and design process, enabling significant cost saving and faster time to market.

UMTS|HSPA

Compact

UMTS|HSPA 5.76/7.2



H 24

Compact

- Tri Band UMTS/HSPA
- Quad Band GPRS
- GPS Receiver
- Extended RF Sensitivity
- Embedded TCP/IP Stack
- SSL - Secure Connection
- Extended Temperature Range
- RoHS Compliant
- 24 Family Form Factor
- Embedded SIM

The H24 Series features blazing fast HSUPA/HSDPA connectivity, taking advantage of global 3.5G deployment, while still leveraging backwards compatibility with GSM/GPRS and EDGE networks. The H24 Series is available with the following 4 HSPA-band combinations: H24-Global (850/1900/2100 MHz), H24-Single (2100 MHz), H24-NA (850/1900/1700-2100 AWS) and H24-Dual (900/2100 MHz).

CDMA | 1xRTT

Compact

CDMA|1xRTT



C 24 CDMA

Compact

- Dual Band CDMA|1xRTT
- GPS Receiver
- Extended RF Sensitivity
- Embedded TCP/IP Stack
- SSL - Secure Connection
- FTP - File Transfer
- Extended Temperature Range
- RoHS Compliant

The C24 is a CDMA 1X module with a rich set of features including a powerful on-board multimode GPS, and MUX. The C24 is certified by Sprint, Verizon, Aeris, and all major international bodies' regulatory and approvals.

	G30 basic	G30 advanced	G30 premium	G24 GSM	G24-EDGE	G24-JAVA	G24-LITE	H24 basic	H24 advanced	H24 premium	C24
Air Interface	GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS/EDGE	GSM/GPRS/EDGE	GSM/GPRS	GSM/GPRS/EDGE/HSPA	GSM/GPRS/EDGE/HSPA	GSM/GPRS/EDGE/HSPA	CDMA 1X
Bands (MHz)	850/900/1800/1900 (GSM)	850/900/1800/1900 (GSM)	850/900/1800/1900 (GSM)	850/900/1800/1900 (GSM)	850/900/1800/1900 (GSM)	850/900/1800/1900 (GSM)	850/900/1800/1900 (GSM)	H24-Single: 2100 + 850/900/1800/1900 (GSM)	H24-Single: 2100 H24-Dual: 900/2100 H24-Global: 850/1900/2100 H24-NA: 850/1900/1700-2100 AWS + 850/900/1800/1900 (GSM)	H24-Single: 2100 H24-Dual: 900/2100 H24-Global: 850/1900/2100 H24-NA: 850/1900/1700-2100 AWS + 850/900/1800/1900 (GSM)	800/1900 (CDMA 1X)
Size (LxWxH mm)	24.4 x 40.0 x 3.5	24.4 x 40.0 x 3.5	24.4 x 40.0 x 3.5	24.4 x 45.2 x 6.0	24.4 x 45.2 x 6.0	24.4 x 45.2 x 6.0	24.4 x 45.2 x 6.0	24.4 x 45.2 x 5.4	24.4 x 45.2 x 5.4	24.4 x 45.2 x 5.4	24.4 x 45.2 x 5.6
Weight	< 6 grams	< 6 grams	< 6 grams	< 10 grams	< 10 grams	< 10 grams	< 10 grams	< 10 grams	< 10 grams	< 10 grams	< 10 grams
Operating Temp Range	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-20°C to +75°C	-30°C to +65°C -30°C to +85°C (Restricted)	-30°C to +65°C -30°C to +85°C (Restricted)	-30°C to +65°C -30°C to +85°C (Restricted)	-30°C to +85°C
Programming Platform			C Language			Java					
Embedded SIM		•	•							•	
Embedded GPS									•	•	•
Receiver Diversity									•	•	
Interfaces											
Mounting Connector	LGA pads (optional 70-pin B2B)	LGA pads (optional 70-pin B2B)	LGA pads (optional 70-pin B2B)	70-pin B2B	70-pin B2B	70-pin B2B	70-pin B2B	70-pin B2B	70-pin B2B	70-pin B2B	70-pin B2B
Main Antenna Connector	LGA pad / U.FL	LGA pad / U.FL	LGA pad / U.FL	RF MMCX	RF MMCX	RF MMCX	RF MMCX	RF MMCX	RF MMCX	RF MMCX	RF MMCX
USB				USB 2.0 Full Speed	USB 2.0 Full Speed	USB 2.0 Full Speed	USB 1.1 Full Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 Full Speed
UART	1 UART	1 UART	1 UART	2 UART	2 UART	2 UART	2 UART	2 UART	2 UART	2 UART	2 UART
SIM Card	1.8/3.0V	1.8/3.0V	1.8/3.0V	3.0V	3.0V	3.0V	1.8/3.0V	USIM/SIM 1.8/3.0V	USIM/SIM 1.8/3.0V	USIM/SIM 1.8/3.0V	R-UIM 1.8V/3.0V
UART MUX	•	•	•	•	•	•	•	•	•	•	•
Power Specifications											
Current Consumption	< 1.6mA	< 1.6mA	< 1.6mA	< 2.5mA	< 2.5mA	< 3.5mA	< 2.5mA	< 1.5mA	< 1.5mA	< 1.5mA	< 2.5mA
Operating Voltage	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V	3.3 - 4.2V
Wireless Technology											
HSPA								HSUPA (5.76Mbps) HSDPA (7.2Mbps)	HSUPA (5.76Mbps) HSDPA (7.2Mbps)	HSUPA (5.76Mbps) HSDPA (7.2Mbps)	
EDGE					class 10	class 10		class 12	class 12	class 12	
GPRS	class 10	class 10	class 10	class 10	class 10	class 10	class 10	class 12	class 12	class 12	
CDMA											CDMA 1X



	G30 basic	G30 advanced	G30 premium	G24 GSM	G24-EDGE	G24-JAVA	G24-LITE	H24 basic	H24 advanced	H24 premium	C24
Air Interface	GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS/EDGE	GSM/GPRS/EDGE	GSM/GPRS	GSM/GPRS/EDGE/HSPA	GSM/GPRS/EDGE/HSPA	GSM/GPRS/EDGE/HSPA	CDMA 1X
Data Features											
CSD	•	•	•	•	•	•	•	•	•	•	•
SMS	•	•	•	•	•	•	•	•	•	•	•
Fax				•	•	•	•	•	•	•	•
TCP/IP & UDP/IP	•	•	•	•	•	•	•	•	•	•	•
FTP	•	•	•	•	•	•	•	•	•	•	•
Control/Status Indicators											
GPIO	9 [8 when using B2B Connection]	9 [8 when using B2B Connection]	9 [8 when using B2B Connection]	8	8	8	8	8	8	8	8
A2D	2	2	2	3	3	3	3				3
Antenna Detect	•	•	•	•	•	•	•	•	•	•	•
Voltage & Temp Sensor	•	•	•	•	•	•	•	•	•	•	•
Network Coverage	•	•	•	•	•	•	•	•	•	•	•
Jamming Detection	•	•	•	•	•	•	•	•	•	•	•
Voice Features											
Digital & Analog Audio	•	•	•	•	•	•	•	•	•	•	•
DTMF	•	•	•	•	•	•	•	•	•	•	•
Echo & Noise Supression	•	•	•	•	•	•	•	•	•	•	•
Full Duplex Audio	•	• (Hands-free)	• (Hands-free)	•	•	•	•	• (Hands-free)	• (Hands-free)	• (Hands-free)	•
Gain Control	•	•	•	•	•	•	•	•	•	•	•
Regulatory & Approvals											
PTCRB	•	•	•	•	•	•	•		• (H24 Global & NA)	• (H24 Global & NA)	
FCC, IC	•	•	•	•	•	•	•		• (H24 Global & NA)	• (H24 Global & NA)	•
R&TTE & EMC	•	•	•	•	•	•	•	•	• (H24 Global, Single, Dual)	• (H24 Global, Single, Dual)	
GCF	•	•	•	•	•	•	•	•	• (H24 Global, Single, Dual)	• (H24 Global, Single, Dual)	
RoHS & WEEE	•	•	•	•	•	•	•	•	• (All models)	• (All models)	•
CE	•	•	•	•	•	•	•	•	• (H24 Global, Single, Dual)	• (H24 Global, Single, Dual)	



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