






Product	AGS2	AGS2-E	AHS2/AHS3	ALS3	ALAS3
					
Radio Technology 2G-4G	GPRS	GPRS	HSPA+	LTE	LTE Advanced
Max. Data Rate DL/UL	Multislot Class 10 85.6/42.8 kbps (DL/UL)	Multislot Class 10 85.6/42.8 kbps (DL/UL)	14.4/5.7 Mbps (DL/UL)	Cat 3 100/50 Mbps (DL/UL)	Cat 6 300/50 Mbps (DL/UL)
Regional Focus	Global	Global	AHS2-E EMEA AHS3-W Global AHS3-US NORAM	ALS3-E EMEA/APAC ALS3-US NORAM	Global and regional variants
Frequency Bands	2G Quad Band	2G Quad Band	AHS2-E 3G (8,1) 2G Dual Band AHS3-W 3G (1,5,6,8) 2G Quad Band AHS3-US 3G (5,2) 2G Quad Band	ALS3-E LTE (20,8,3,1,7) 3G (8,3,1) 2G Dual Band ALS3-US LTE (17,5,4,2) 3G (5,4,2) 2G Quad Band	2G, 3G, LTE (Band combination depending on variant)
Dimensions/ Mounting	27.6 x 18.8 x 2.7 mm, LGA	33 x 29 x 2.2 mm, LGA	33 x 29 x 2.4 mm, LGA	33 x 29 x 2.3 mm, LGA	40 x 32 x 2.9 mm, LGA
Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Features					
Gemalto Security	•	•	•	•	•
Embedded Processing					Linux
Embedded IP Services	•	•	•		
Voice Support	•	•	•	VoLTE (-US only), CSFB	VoLTE, CSFB
Location Based Services		GPS, GLONASS, Galileo	GPS, GLONASS	GPS, GLONASS, Galileo	GPS, GLONASS, Galileo, Beidou
Advanced Temperature Management	•	•	•	•	•
RLS-Monitoring (Jamming Detection)	•	•	•	•	•
Interfaces					
USB			USB 2.0	USB 2.0	USB 3.0, HSIC
Serial Interfaces	UART, I ² C	UART, I ² C	UART	UART	UART, SPI, I ² C
Audio	Digital (I ² S, PCM), Analog	Digital (I ² S, PCM), Analog	Digital (I ² S, PCM), Analog	Digital (I ² S, PCM), Analog	Digital (I ² S, PCM)
ADC/DAC	•	•		•	•
Multiple GPIOs	•	•	•	•	•
Ethernet					via PCIe



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Gemalto Cinterion® Wireless Modules Product Families

Gemalto's broad portfolio of Cinterion M2M Modules and Terminals delivers reliable cellular communications for any network standard from 2G to LTE including latest Machine Type Communication. The products' rugged design, unparalleled engineering and highest quality manufacturing ensures reliability in the most demanding M2M IoT environments and over the long life of solutions.

Automotive

Automotive M2M products provide the foundation for advanced telematics and evolving connected car technology. Feature rich and engineered to withstand the extreme environments and requirements of long life on the road. Products within this family provide dedicated service, highest quality level, automotive feature set and are manufactured according to VDA 6.2 and TS16949 quality standards.

Industrial

Industrial M2M products offer efficient communication from 2G to LTE Cat.1. Benefits include flexibility, backward and forward compatibility as network standards evolve and longevity to maximize your technology investment. Smart modules powered by Java® and Linux improve cost efficiency, design simplicity and increased flexibility over life cycle.

Industrial Plus

Industrial Plus M2M modules leverage the latest cellular standards to deliver high speed data and voice communications with multiband capabilities to ensure seamless coverage. They are available in local and global variants for 2G, 3G, CDMA, Multimode and LTE.

Terminals

Terminals work out of the box to quickly and easily add M2M IoT connectivity to smart enterprise applications. Available for various network standards and with the option of embedded Java, they offer a variety of standard interfaces, are fully type approved and therefore require very little integration effort.

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