Product	PGS8	PDS5	PDS6/PDS8	PHS8	PCS3	PVS8	PXS8	PLS8
				Z ∠, W	Δ., Na.	Z. A., PM.		∑
Radio Technology 2G-4G	GPRS	HSPA	HSPA	HSPA+	CDMA	CDMA	CDMA/HSPA+	LTE
Max. Data Rate DL/UL	Multislot Class 10 85.6/42.8 kbps (DL/UL)	7.2/5.7 Mbps (DL/UL)	7.2/5.7 Mbps (DL/UL)	14.4/5.7 Mbps (DL/UL)	153.6/153.6 kbps (DL/UL)	3.1/1.8 Mbps (DL/UL)	3.1/1.8 Mbps (DL/UL) 14.4/5.7 Mbps (DL/UL)	Cat 3 100/50 Mbps (DL/UL)
Regional Focus	Global	PDS5-E EMEA/APAC PDS5-US NORAM	PDS6/8 Global PDS6-J Japan	PHS8-P Global PHS8-J Japan PHS8-K Korea PHS8-E EMEA/APAC PHS8-US NORAM	USA	USA	Global	PLS8-E EMEA PLS8-US NORAM PLS8-J Japan PLS8-X NORAM PLS8-V USA (Verizon)
Frequency Bands	2G Quad Band	PDS5-E 3G (8,1) 2G Dual Band PDS5-US 3G (5,2) 2G Dual Band	PDS6/8 3G (1,2,5,6,8) 2G Quad Band PDS6-J 3G (1,5,6,8,19)	PHS8-P/-J/- K 3G (1,2,4,5,6) 2G Quad Band PHS8-E 3G (8,1) 2G Dual Band PHS8-US 3G (5,2) 2G Dual Band	CDMA 1 x Rev. F BC0, BC1, BC10	CDMA2000 EV-DO Rev. A BC0, BC1, BC10	CDMA2000 EV-DO Rev. A BC0, BC1, BC10 3G (1,2,5,6,8) 2G Quad Band	PLS8-E LTE (20,8,3,1,7) 3G (8,3,1) 2G Dual Band PLS8-US LTE (17,5,4,2) 3G (5,4,2) 2G Quad Band PLS8-J LTE (1,3,19) 3G (1,19) PLS8-X LTE (13,17,5,4,2) 3G (5,4,2) 2G Quad Band PLS8-V LTE (13,4,2)
Dimensions/ Mounting	33 x 29 x 2.2 mm, LGA	33 x 29 x 2.4 mm, LGA	33 x 29 x 2.4 mm, LGA	33 x 29 x 2.0 mm, LGA	33 x 29 x 2.0 mm, LGA	33 x 29 x 2.0 mm, LGA	33 x 29 x 2.0 mm, LGA	33 x 29 x 2.3 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	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Features								
Gemalto Security	•	•	•	•	•	•	•	•
Embedded Processing		Java	Java					
Embedded IP Services	•	•	•	•	•	•	•	•
Voice Support	•	•	•	•	•	•	•	•
Location Based Services	GPS, GLONASS, Galileo		GPS (PDS8 only)	GPS, GLONASS		GPS, GLONASS	GPS, GLONASS	GPS, GLONASS, Galileo
Advanced Temperature Management	•	•	•	•	•	•	•	•
RLS-Monitoring (Jamming Detection)	•	•	•	•		•	•	•
Interfaces								
USB	-	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Serial Interfaces	UART, I <sup>2</sup> C	UART, I <sup>2</sup> C, SPI	UART, I <sup>2</sup> C, SPI	UART	UART	UART	UART	UART
Audio	Digital (PCM), Analog	Digital (PCM)	Digital (PCM), Analog (PDS6 only)	Digital (I <sup>2</sup> S, PCM), Analog	Digital (PCM), Analog	Digital (I <sup>2</sup> S, PCM), Analog	Digital (I <sup>2</sup> S, PCM), Analog	Digital (I <sup>2</sup> S, PCM) (-X /-V data only)
ADC/DAC	•	•	•		•			•
			•					
Multiple GPIOs	•	•			•			





# 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.

### 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.

## 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.

# 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.