# Product family: Automotive

<table>
<thead>
<tr>
<th>Product</th>
<th>AGS2</th>
<th>AGS2-E</th>
<th>AHS2/AHS3</th>
<th>ALS3</th>
<th>ALx</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="AGS2" /></td>
<td><img src="image2" alt="AGS2-E" /></td>
<td><img src="image3" alt="AHS2/AHS3" /></td>
<td><img src="image4" alt="ALS3" /></td>
<td><img src="image5" alt="ALx" /></td>
<td></td>
</tr>
</tbody>
</table>

## Radio technology 2G - 4G
- **AGS2-E**: GPRS, HSPA+, LTE Cat 3, LTE Adv. Cat 6
- **AGS2-W**: Global
- **AHS2-E**: AGS2-E EMEA/APAC, AGS2-W Global
- **AHS3-W**: AHS2-E EMEA/APAC, AHS3-W Global
- **AHS3-US**: AHS3-W EMEA/APAC, AHS3-US NORAM
- **ALS3-E**: ALS3-E EMEA/APAC, ALS3-US NORAM
- **ALS3-US**: ALS3-US NORAM
- **Global and regional variants**

## Regional focus
- **AGS2-E**: EMEA / APAC
- **AGS2-W**: Global
- **AHS2-E**: EMEA / APAC
- **AHS3-W**: Global
- **AHS3-US**: NORAM
- **ALS3-E**: EMEA / APAC
- **ALS3-US**: NORAM

## Frequency bands
- **AGS2**: 2G Quad Band
- **AGS2-E**: 2G Quad Band
- **AHS2**: 2G Dual Band
- **AHS3**: 3G (1,5,6,8) 2G Quad Band
- **ALS3**: LTE (1,3,7,8,20) 2G Dual Band
- **ALS3-US**: LTE (2,4,5,17) 2G Quad Band

## max. Data Rate DL / UL
- **AGS2**: Multislot Class 10 85.6 / 42.8 kbps (DL / UL)
- **AGS2-E**: Multislot Class 10 85.6 / 42.8 kbps (DL / UL)
- **AHS2**: 4.4 / 5.7 Mbps (DL / UL)
- **AHS3**: Cat 3 100 / 50 Mbps (DL / UL)
- **ALS3**: Cat 6 300 / 50 Mbps (DL / UL)

## Dimensions / Mounting
- **AGS2**: 27.6 x 18.8 x 2.7mm, LGA
- **AGS2-E**: 33 x 29 x 2.2mm, LGA
- **AHS2**: 33 x 29 x 2.4mm, LGA
- **AHS3**: 33 x 29 x 2.3mm, LGA
- **ALS3**: 40 x 32 x 2.9mm, LGA

## Temperature range
- **AGS2**: -40°C to +95°C
- **AGS2-E**: -40°C to +90°C
- **AHS2**: -40°C to +85°C
- **AHS3**: -40°C to +85°C
- **ALS3**: -40°C to +85°C

## Features
- **Gemalto Security**: ● ● ● ● ●
- **Embedded Processing**: ● ● ● ● ●
- **Embedded IP services**: ● ● ● ● ●
- **Voice support**: ● ● ●
- **Location based services**: GNSS
- **Advanced Temperature Management**: ● ● ● ● ●
- **RLS-Monitoring (Jamming Detection)**: ● ● ● ● ●

## Interfaces
- **USB**: USB 2.0
- **Serial interfaces**: UART, I2C, I2C, UART, UART
- **Audio**: Digital (PCM), Analog, Digital (PCM), Analog, Digital (IFS, PCM), Analog, Digital (IFS, PCM)
- **ADC/DAC**: ● ● ●
- **Multiple GPIOs**: ● ● ●
- **Ethernet/WiFi**: optional, via PCIe

Gemalto Cinterion® Automotive Product Family

In the fast-paced automotive industry, innovation and leading-edge technology are paramount to success. Gemalto’s award-winning Cinterion Automotive Wireless Modules are revolutionizing the industry providing a new frontier for evolving connected car technology and advanced telematics.

Cinterion automotive grade wireless modules deliver trusted cellular connectivity for all network standards from 2G to LTE Advanced and beyond. Feature-rich and engineered to withstand the extreme environments and requirements of long life on the road, they offer unparalleled performance providing full support for eCall and ERA-GLONASS. In addition, they are developed according to VDA 6.2 and manufactured according to TS16949 quality standards, to meet the highest level of automotive specification compliance.

Gemalto’s complementary offering of solutions, services and platforms delivers a virtuous circle of support for the entire automotive and transportation ecosystem offering: secure authentication for virtual car keys, embedded payment systems, On Demand Connectivity and remote product monitoring and lifecycle management. This allows carmakers, OEMS and drivers to unleash the power of the IoT providing a solid foundation of Trust based on three key pillars:

**Connect.** The backbone of any IoT solution, Cinterion modules, terminals and secure services deliver future-proof, reliable connectivity, remote service provisioning and subscription management.

**Secure.** Gemalto’s end-to-end security solutions protect vehicles, devices, the network and the cloud while managing the entire application lifecycle.

**Monetize.** Gemalto’s agile Sentinel Monetization solutions enable innovative business models and new revenue streams through embedded licensing.

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## Product family: Industrial

<table>
<thead>
<tr>
<th>Product</th>
<th>BGS1/BGS2</th>
<th>BGS5</th>
<th>EHS5/6/8</th>
<th>ELS31</th>
<th>ELS61</th>
<th>ELS81</th>
<th>EMS31</th>
<th>ENS22</th>
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<tbody>
<tr>
<td><strong>Radio technology</strong></td>
<td>2G - 4G</td>
<td>GPRS</td>
<td>GPRS</td>
<td>HSPA</td>
<td>LTE Cat 1</td>
<td>LTE Cat 1</td>
<td>LTE Cat 4</td>
<td>LTE Cat M</td>
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<tr>
<td><strong>Frequency bands</strong></td>
<td>BGS2-W</td>
<td>2G Quad Band</td>
<td>BGS1/BGS2-E</td>
<td>2G Dual Band</td>
<td>EHS6/8</td>
<td>3G (1,2,5,6,8)</td>
<td>2G Quad Band</td>
<td>EHS5-E</td>
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<td>85.6 / 42.8 kbps (DL / UL)</td>
<td>Multislot Class 12</td>
<td>85.6 / 85.6 kbps (DL / UL)</td>
<td>Cat 1</td>
<td>10.3 / 5.2 Mbps (DL / UL)</td>
<td>Cat 1</td>
<td>10.3 / 5.2 Mbps (DL / UL)</td>
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<td>27.6 x 18.8 x 2.7mm, LGA</td>
<td>27.6 x 18.8 x 2.3mm, LGA</td>
<td>27.6 x 18.8 x 2.1mm, LGA</td>
<td>27.6 x 25.4 x 2.2mm, LGA</td>
<td>27.6 x 25.4 x 2.2mm, LGA</td>
<td>27.6 x 18.8 x 2.1mm, LGA</td>
<td>27.6 x 18.8 x 2.1mm, LGA</td>
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<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
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<td>-40°C to +85°C</td>
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<td>Java*</td>
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<td>Voice support</td>
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<td>●</td>
<td>VoLTE</td>
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<tr>
<td></td>
<td>Location based services</td>
<td>GPS (EHS8 only)</td>
<td>On demand cell location service</td>
<td>On demand cell location service</td>
<td>On demand cell location service</td>
<td></td>
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<tr>
<td></td>
<td>Advanced Temperature Management</td>
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<td>RLS-Monitoring (Jamming Detection)</td>
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<td>●</td>
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<td>●</td>
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<td>●</td>
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<td>USB 2.0</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
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<tr>
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<td>Serial interfaces</td>
<td>UART, i²C</td>
<td>UART, i²C, SPI</td>
<td>UART, i²C, SPI</td>
<td>UART, i²C, SPI</td>
<td>UART, i²C, SPI</td>
<td>UART, i²C, SPI</td>
<td>UART, i²C</td>
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<td>Audio</td>
<td>Digital (PCM), Analog</td>
<td>Digital (i²S, PCM), Analog</td>
<td>Digital (i²S, PCM), Analog</td>
<td>Digital (i²S, PCM)</td>
<td>Digital (i²S, PCM)</td>
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<td></td>
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<tr>
<td></td>
<td>Multiple GPIOs</td>
<td>●</td>
<td>●</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>Ethernet/WiFi</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

*1 optional

Gemalto Cinterion® Industrial Product Family

In today’s quickly evolving digital landscape, connected assets and IoT applications need to meet wide-ranging and ever-changing demands. Gemalto’s Cinterion® Industrial Wireless Modules deliver trusted cellular connectivity offering scalability and an easy path to upgrades as technology needs evolve.

Now including the latest Machine Type Communication LPWAN standards (Low Power Wide Area Network) such as LTE Cat. M and LTE NB-IoT, the Cinterion Industrial Modules are designed for IoT applications that rely on efficient network connectivity along with long product lifecycles. Benefits include maximum flexibility, ease of integration, optional embedded system variants plus a rugged design that ensures reliability in the most demanding industrial environments. All products within the Industrial Family share a common footprint offering backward and forward compatibility for easy product evolution that preserves your technology investment. Like all Cinterion products, they come with full type approval (FTA) and are certified by the largest global network operators.

Gemalto’s complementary offering of solutions, services and solid identity management helps enterprises unleash the power of the IoT, providing a solid foundation of Trust based on three key pillars:

Connect. The backbone of any IoT solution, Cinterion modules, terminals and secure services deliver future-proof, reliable connectivity, remote service provisioning and subscription management.

Secure. Gemalto’s end-to-end security solutions protect vehicles, devices, the network and the cloud while managing the entire application lifecycle.

Monetize. Gemalto’s agile Sentinel Monetization solutions enable innovative business models and new revenue streams through embedded licensing.

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## Product family: Industrial Plus

<table>
<thead>
<tr>
<th>Product</th>
<th>AGS2-E</th>
<th>PDS5/6/8</th>
<th>PHS8</th>
<th>PX8/PV8</th>
<th>PLS8</th>
<th>PLS62-W</th>
<th>PLAS9 *</th>
</tr>
</thead>
</table>

### Radio technology
2G - 4G

- **GPRS**
- **HSPA**
- **HSPA+**
- **CDMA/HSPA+**
- **LTE Cat 3**
- **LTE Cat 1**
- **LTE Adv. Cat 6**

### Regional focus

- **Global**
- **EMEA/US**
- **APAC/NORAM**
- **Japan**
- **Korea**
- **Global**
- **EMEA/US**
- **APAC/NORAM**
- **Global**
- **Japan**
- **Korea**
- **Global**
- **EMEA/US**
- **APAC/NORAM**
- **Global**
- **Japan**

### Frequency bands

2G Quad Band

- **PDS5-E**
  - 3G (1,8)
  - 2G Dual Band
- **PDS5-US**
  - 3G (2,5)
  - 2G Dual Band
- **PDS6**
  - 3G (1,2,5,6,8)
  - 2G Quad Band
- **PDS6-J**
  - 3G (1,8)
  - 2G Dual Band
- **PHS8**
  - 3G (1,8)
  - 2G Dual Band
- **PHS8-US**
  - 3G (2,5)
  - 2G Dual Band
- **PVS8**
  - 3G (1,2,4,5,6)
  - 2G Quad Band
- **PHS8-J**
  - 3G (1,8)
  - 2G Dual Band
- **PHS8-K**
  - 3G (1,8)
  - 2G Dual Band
- **PHS8-E**
  - 3G (1,8)
  - 2G Dual Band
- **PLS8**
  - 3G (1,3,8)
  - 2G Quad Band
- **PLS8-US**
  - 3G (2,4,13)
  - 2G Quad Band
- **PLS8-J**
  - 3G (1,8)
  - 2G Quad Band
- **PLS8-X**
  - 3G (1,8)
  - 2G Quad Band
- **PLS8-V**
  - 3G (1,8)
  - 2G Quad Band
- **PLAS9-E**
  - 3G (1,3,8)
  - 2G Quad Band
- **PLAS9-W**
  - 3G (1,3,8)
  - 2G Quad Band
- **PLAS9-X**
  - 3G (1,3,8)
  - 2G Quad Band

### max. Data Rate DL / UL

- **Multislot Class 10**
  - 85.6 / 42.8 kbps (DL / UL)
  - 7.2 / 5.7 Mbps (DL / UL)
  - 14.4 / 5.7 Mbps (DL / UL)
  - 3.1 / 1.8 Mbps (DL / UL)
  - 14.4 / 5.7 Mbps (DL / UL)
  - Cat 3
  - 100 / 50 Mbps (DL / UL)
  - 10.3 / 5.2 Mbps (DL / UL)
  - Cat 6
  - 300 / 50 Mbps (DL / UL)

### Dimensions / Mounting

- **33 x 29 x 2.2mm, LGA**
- **33 x 29 x 2.4mm, LGA**
- **33 x 29 x 2.0mm, LGA**
- **33 x 29 x 2.0mm, LGA**
- **33 x 29 x 2.3mm, LGA**
- **33 x 29 x 2.4mm, LGA**
- **33 x 29 x 2.9mm, LGA**
- **40 x 32 x 2.9mm, 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
- Embedded IP services
- Voice support
- Location based services
- Advanced Temperature Management
- RLS-Monitoring (Jamming Detection)

### Interfaces

- **USB**
- **UART, PC**
- **Audio**
- **ADC/DAC**
- **Multiple GPIOs**
- **Ethernet/WiFi**
- **Serial interfaces**
- **Audio**
- **ADC/DAC**
- **Multiple GPIOs**
- **Ethernet/WiFi**

*04/2018

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**Notations:**
- **●** indicates presence.
- **Java** indicates Java support.
- **VoLTE, CSFB** indicates VoLTE and CSFB support.
- **Data only** indicates data-only services.
- **optional, via PCIe** indicates optional interfaces via PCIe.
Connect. Secure. Monetize™

Gemalto Cinterion® Industrial Plus Product Family

In today's quickly evolving digital landscape, connected assets and IoT solutions need to meet wide-ranging and ever-changing demands. Gemalto's Cinterion® Industrial Plus Wireless Modules deliver trusted cellular connectivity for a variety of high performance, long-lived industrial applications.

The Industrial Plus Family is designed for IoT applications that require the latest cellular technologies and M2M features including high-speed data and voice, multiband capabilities for worldwide coverage and an optional embedded system. Benefits include ease of integration, high performance connectivity ranging from 2G up to LTE Advanced plus a rugged design that ensures product longevity and reliability in extreme industrial environments. All products within the Industrial Plus Family share a common footprint offering backward and forward compatibility for easy product evolution that preserves your technology investment. Like all Cinterion products, they come with full type approval (FTA) and are certified by the largest global network operators.

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## Product family: Terminals

| Product | BGS2T | BGS5T | EHS5T | EHS6T-USB/-LAN | ELS31T / ELS61T-LAN | PLS62T-USB *
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Radio technology</td>
<td>GPRS</td>
<td>GPRS</td>
<td>HSPA</td>
<td>HSPA</td>
<td>LTE Cat 1</td>
<td>LTE Cat 1</td>
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<td>Regional focus</td>
<td>EMEA APAC</td>
<td>EMEA APAC</td>
<td>EMEA APAC</td>
<td>Global</td>
<td>EMEA USA Australia</td>
<td>Global</td>
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<tr>
<td>Frequency bands</td>
<td>2G Quad Band</td>
<td>2G Quad Band</td>
<td>3G (1,8) 2G Dual Band</td>
<td>3G (1,2,5,6,8) 2G Quad Band</td>
<td>ELS61T-E LTE (1,3,8,20,28), 3G (1,8), 2G Dual Band</td>
<td>ELS61T-US LTE (2,4,5,12), 3G (2,4,5) ELS61T-AUS LTE (3,5,8,28), 3G (1,5,8) ELS31T-V LTE (4,13) ELS31T-J LTE (1,18,19)</td>
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<tr>
<td>max. Data Rate</td>
<td>Multislot Class 10 85.6 / 42.8 kbps (DL / UL)</td>
<td>Multislot Class 12 85.6 / 42.8 kbps (DL / UL)</td>
<td>7.2 / 5.7 Mbps (DL / UL)</td>
<td>7.2 / 5.7 Mbps (DL / UL)</td>
<td>Cat 1 10.3 / 5.2 Mbps (DL / UL)</td>
<td>Cat 1 10.3 / 5.2 Mbps (DL / UL)</td>
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<td>Dimensions / Mounting</td>
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<td>115 x 86 x 26mm</td>
<td>115 x 86 x 26mm</td>
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<td>-30°C to +65°C</td>
<td>-30°C to +65°C</td>
<td>-30°C to +65°C</td>
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<tr>
<td>Features</td>
<td>Gemalto Security</td>
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<td>Embedded Processing</td>
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<td>Java (ELS61T only)</td>
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<td>Embedded IP services</td>
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<td>Voice support</td>
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<td>Location based services</td>
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<td>On-Demand Geo Location Service</td>
<td>On-Demand Geo Location Service</td>
<td>On-Demand Geo Location Service</td>
<td>On demand cell location service</td>
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<td>Advanced Temperature Management</td>
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<tr>
<td>RLS-Monitoring (Jamming Detection)</td>
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<td>Serial interfaces</td>
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<td>ADC / DAC</td>
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*H1 2018
In today’s quickly evolving digital landscape, connected assets and IoT applications need a faster time-to-market to stay competitive. Gemalto’s Cinterion® Cellular Terminal family delivers trusted plug-and-play wireless connectivity allowing new IoT implementers to quickly connect industrial applications offering a swift enterprise optimization solution.

Cinterion IoT Terminals work out of the box to quickly and easily add secure IoT connectivity to smart industrial and enterprise applications. With very little integration effort, Terminals can be connected to applications via a wide variety of standard industrial interfaces. An optional embedded system offers code libraries, a broad choice of tools and a proven security concept for fast application development. Highly flexible mounting schemes allow fast and simple deployment. Encased in robust plastic housing, the products’ rugged design, unparalleled engineering and highest quality manufacturing ensures reliability in the most demanding environments and over the long life cycle of industrial IoT solutions. Like all Cinterion products, they come with full type approval (FTA) and are certified by the largest global network operators. They are ideal for mid- to small-sized IoT deployments or any implementation that needs immediate connectivity.

Gemalto’s complementary offering of solutions, services and solid identity management helps enterprises unleash the power of the IoT, providing a solid foundation of Trust based on three key pillars:

**Connect.** The backbone of any IoT solution, Cinterion modules, terminals and secure services deliver future-proof, reliable connectivity, remote service provisioning and management.

**Secure.** Gemalto’s end-to-end security solutions protect vehicles, devices, the network and the cloud while managing the entire application lifecycle.

**Monetize.** Gemalto’s agile Sentinel Monetization solutions enable innovative business models and new revenue streams through embedded licensing.