

# LTE-M / NB-IoT modules with Secure Cloud



| LTE-M / NB-IoT modules          |  |            |              |                   |                |                 |   |            |              |
|---------------------------------|--|------------|--------------|-------------------|----------------|-----------------|---|------------|--------------|
|                                 | SARA-R500S   | SARA-R510S | SARA-R510M8S | SARA-R410M-63B    | SARA-R410M-73B | SARA-R410M-83B  | SARA-R422   | SARA-R422S | SARA-R422M8S |
| <b>Grade</b>                    |  |            |              |                   |                |                 |   |            |              |
| Automotive                      |  |            |              |                   |                |                 |   |            |              |
| Professional                    | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Standard                        |  |            |              |                   |                |                 |   |            |              |
| <b>Physical</b>                 |  |            |              |                   |                |                 |   |            |              |
| Image                           |  |            |              |                   |                |                 |   |            |              |
| Size [mm]                       | 16.0 x 26.0 x 2.2  |            |              | 16.0 x 26.0 x 2.5 |                |                 | 16.0 x 26.0 x 2.5   |            |              |
| Package and pins                | 96-pin LGA   |            |              | 96-pin LGA        |                |                 | 96-pin LGA  |            |              |
| Regions                         | Multi-region   |            |              | Japan             | Korea          | Multi-region    | Multi-region  |            |              |
| <b>Access technology</b>        |  |            |              |                   |                |                 |   |            |              |
| GSM/GPRS bands                  |  |            |              |                   |                |                 | Q   | Q          | Q            |
| LTE bands                       | 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28. NB2 only: 66, 71, 85 |            |              | 1, 8, 19          | 3, 5, 26       | 3, 5, 8, 20, 28 | 1, 2, 3, 4, 5, 8, 12, 13, 20, 25, 26, 28 NB2 only: 66, 71, 85 |            |              |
| Data rate                       | M1/NB2   | M1/NB2     | M1/NB2       | M1                | M1             | M1/NB1          | M1/NB2  | M1/NB2     | M1/NB2       |
| <b>Positioning</b>              |  |            |              |                   |                |                 |   |            |              |
| Integrated u-blox GNSS receiver |  |            | •            |                   |                |                 |   |            | •            |
| GNSS antenna interface          |  |            | •            |                   |                |                 |   |            | •            |
| External GNSS control via modem | •  | •          |              | •                 | •              | •               |   | •          |              |
| AssistNow software              | •  | •          | •            | •                 | •              | •               |   | •          | •            |
| CellLocate®                     | •  | •          |              | •                 | •              | •               |   | •          | •            |
| <b>Interfaces</b>               |  |            |              |                   |                |                 |   |            |              |
| UART                            | 2  | 2          | 2            | 1                 | 1              | 1               | 1   | 1          | 1            |
| USB                             | D  | D          | D            | 1                 | 1              | 1               | D   | D          | D            |
| DDC (I2C)                       | 1  | 1          | 1            | 1                 | 1              | 1               | 1   | 1          | 1            |
| SPI                             | □  | □          | □            |                   |                |                 |   |            |              |
| SDIO (master)                   | □  | □          | □            |                   |                |                 |   |            |              |
| USIM                            | 1  | 1          | 1            | 1                 | 1              | 1               | 1   | 1          | 1            |
| GPIO                            | 6  | 6          | 6            | 6                 | 6              | 6               | 6   | 6          | 6            |
| Digital audio                   | □  | □          | □            |                   |                |                 |   | □          | □            |
| <b>Features</b>                 |  |            |              |                   |                |                 |   |            |              |
| IoT Security-as-a-Service       | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Root of Trust                   | SE   | SE         | SE           | •                 | •              | •               | •   | •          | •            |
| Antenna dynamic tuning          | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| CellTime                        | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Power save mode (PSM)           | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Ultra low power save mode       | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Last gasp                       | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Antenna detection               | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Embedded TCP/UDP stack          | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Embedded HTTPS, FTPS            | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Embedded TLS, DTLS              | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| eDRX                            | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| FW update via serial            | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| uFOTA                           | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Dual stack IPv4/IPv6            | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Embedded CoAP/DTLS              | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Embedded MQTT                   | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| Embedded MQTT-SN                | •  | •          | •            | •                 | •              | •               | •   | •          | •            |
| LWM2M device management         | •  | •          | •            | •                 | •              | •               | •   | •          | •            |

M1 = LTE Cat M1, Rel 13 (300 kb/s DL, 375 kb/s UL)  
 LTE Cat M1, Rel 14 (300 kb/s DL, 1200 kb/s UL)  
 □ = Available in future firmware

NB1 = Cat NB1 (27.2 kb/s DL, 62.5 kb/s UL)  
 NB2 = Cat NB2 (125 kb/s DL, 140 kb/s UL)

Q = Quad-band  
 D = for diagnostics



SE = Secure element

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# LTE-M / NB-IoT modules



|                                 | LTE-M / NB-IoT modules  |                |              | LTE Cat NB2 modules   |                        |
|---------------------------------|---|----------------|--------------|---|------------------------|
|                                 | SARA-R410M-52B  | SARA-R410M-02B | SARA-R412M   | SARA-N300   | SARA-N310 <sup>A</sup> |
| <b>Grade</b>                    |   |                |              |   |                        |
| Automotive                      |   |                |              |   |                        |
| Professional                    | •   | •              | •            | •   | •                      |
| Standard                        |   |                |              |   |                        |
| <b>Physical</b>                 |   |                |              |   |                        |
| Image                           |  |                |              |  |                        |
| Size [mm]                       | 16.0 x 26.0 x 2.5   |                |              | 16.0 x 26.0 x 2.4   |                        |
| Package and pins                | 96-pin LGA  |                |              | 96-pin LGA  |                        |
| Regions                         | N America   | Multi-region   | Multi-region | China   | Multi-region           |
| <b>Access technology</b>        |   |                |              |   |                        |
| GSM/GPRS bands                  |   |                | Q            |   |                        |
| LTE bands                       | 2, 4, 5, 12, 13   | *              | *            | 3, 5, 8   | 3, 5, 8, 20, 28, +     |
| Data rate                       | M1  | M1/NB1         | M1/NB1       | NB2   | NB2                    |
| <b>Positioning</b>              |   |                |              |   |                        |
| External GNSS control via modem | •   | •              | •            |   |                        |
| AssistNow software              | •   | •              | •            |   |                        |
| <b>Interfaces</b>               |   |                |              |   |                        |
| UART                            | 1   | 1              | 1            | 2   | 2                      |
| USB                             | 1   | 1              | 1            |   |                        |
| DDC (I2C)                       | 1   | 1              | 1            |   |                        |
| USIM                            | 1   | 1              | 1            | 1   | 1                      |
| ADC                             |   |                |              | 2   | 2                      |
| GPIO                            | 6   | 6              | 6            | 5   | 5                      |
| <b>Features</b>                 |   |                |              |   |                        |
| Last gasp                       | •   | •              | •            | •   | •                      |
| SIM detection                   | •   | •              | •            | □   | □                      |
| Antenna detection               | •   | •              | •            | •   | •                      |
| Embedded TCP/UDP stack          | •   | •              | •            | •   | •                      |
| Embedded HTTPS, TLS             | •   | •              | •            | •   | •                      |
| Power save mode (PSM)           | •   | •              | •            | •   | •                      |
| eDRX                            | •   | •              | •            | •   | •                      |
| Deep sleep mode                 | •   | •              | •            | •   | •                      |
| Jamming detection               |   |                |              | •   | •                      |
| FW update via serial            | •   | •              | •            | •   | •                      |
| FOTA / uFOTA                    | •   | •              | •            | •   | •                      |
| Dual stack IPv4/IPv6            | •   | •              | •            | •   | •                      |
| Embedded CoAP/DTLS              |   |                |              | •   | •                      |
| Embedded MQTT                   | •   | •              | •            |   | •                      |
| Embedded MQTT-SN                |   |                |              | •   | •                      |
| LwM2M device management         | •   | •              | •            |   | •                      |

NB1 = Cat NB1 (27.2 kb/s DL, 62.5 kb/s UL)  
NB2 = Cat NB2 (125 kb/s DL, 140 kb/s UL)

A = ATEX variant

□ = Available in future firmware

+ = LTE bands 1, 2, 4, 12, 13, 18, 19, 26, 66, 71, 85 available in future firmware

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# LTE Cat 1 modules



| LTE Cat 1 modules               |                   |               |               |           |                 |           |           |                      |                      |               |
|---------------------------------|-------------------|---------------|---------------|-----------|-----------------|-----------|-----------|----------------------|----------------------|---------------|
|                                 | LARA-R202         | LARA-R203     | LARA-R204     | LARA-R211 | LARA-R281       | LARA-R220 | LARA-R280 | TOBY-R200-02B        | TOBY-R200-82B        | TOBY-R202     |
| <b>Grade</b>                    |                   |               |               |           |                 |           |           |                      |                      |               |
| Automotive                      |                   |               |               |           |                 |           |           |                      |                      |               |
| Professional                    | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| Standard                        |                   |               |               |           |                 |           |           |                      |                      |               |
| <b>Physical</b>                 |                   |               |               |           |                 |           |           |                      |                      |               |
| Image                           |                   |               |               |           |                 |           |           |                      |                      |               |
| Size [mm]                       | 24.0 x 26.0 x 2.6 |               |               |           |                 |           |           | 24.8 x 35.6 x 2.6    |                      |               |
| Package and pins                | 100-pin LGA       |               |               |           |                 |           |           | 152-pin LGA          |                      |               |
| Regions                         | North America     | North America | North America | EMEA      | EMEA            | Japan     | APAC      | North America        | Global               | North America |
| <b>Access technology</b>        |                   |               |               |           |                 |           |           |                      |                      |               |
| GSM/GPRS bands                  | D1                |               |               |           |                 |           |           | Q                    | Q                    |               |
| UMTS/HSPA [MHz]                 | 850, 1900         |               |               |           | 2100            |           | 2100      | 850, 900, 1900, 2100 | 850, 900, 1900, 2100 | 850, 1900     |
| LTE bands                       | 2, 4, 5, 12       | 2, 4, 12      | 4, 13         | 3, 7, 20  | 1, 3, 8, 20, 28 | 1, 19     | 3, 8, 28  | 2, 4, 5, 12          | 1, 2, 4, 5, 8, 12    | 2, 4, 5, 12   |
| Data rate                       | Cat 1             | Cat 1         | Cat 1         | Cat 1     | Cat 1           | Cat 1     | Cat 1     | Cat 1                | Cat 1                | Cat 1         |
| <b>Positioning</b>              |                   |               |               |           |                 |           |           |                      |                      |               |
| External GNSS control via modem | •                 | •             |               | •         | •               | •         | •         | •                    | •                    | •             |
| AssistNow software              | •                 | •             |               | •         | •               | •         | •         | •                    | •                    | •             |
| CellLocate®                     | •                 | •             |               | •         | •               | •         | •         | •                    | •                    | •             |
| <b>Interfaces</b>               |                   |               |               |           |                 |           |           |                      |                      |               |
| UART                            | 1                 | 1             | 1             | 2         | 1               | 1         | 1         | 1                    | 1                    | 1             |
| USB                             | 1                 | 1             | 1             | 1         | 1               | 1         | 1         | 1                    | 1                    | 1             |
| HSIC                            | H                 | H             | H             | H         | H               | H         | H         |                      |                      |               |
| DDC (I2C)                       | 1                 | 1             | 1             | 1         | 1               | 1         | 1         | 1                    | 1                    | 1             |
| SDIO (master)                   | H                 | H             | H             | H         | H               | H         | H         | H                    | H                    | H             |
| GPIO                            | 9                 | 9             | 9             | 9         | 9               | 9         | 9         | 9                    | 9                    | 9             |
| <b>Audio</b>                    |                   |               |               |           |                 |           |           |                      |                      |               |
| Digital audio                   | 1                 | 1             |               | 1         | 1               |           | 1         | 1                    | 1                    | 1             |
| <b>Features</b>                 |                   |               |               |           |                 |           |           |                      |                      |               |
| VoLTE                           | v                 | v             |               | •         | c               |           | c         | v                    | v                    | v             |
| Antenna detection               | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| Embedded TCP/UDP                | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| Embedded FTP/HTTP               | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| Embedded TLS 1.2                | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| FW update via serial            | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| FOTA                            | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| Rx diversity                    | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |
| Dual stack IPv4/IPv6            | •                 | •             | •             | •         | •               | •         | •         | •                    | •                    | •             |

Q = Quad-band  
D1 = Dual-band 900/1800 MHz

Cat 1 = LTE Cat 1 (10 Mb/s DL, 5 Mb/s UL)

□ = Available in future firmware version  
v = VoLTE available and AT&T certified  
c = CSFB only  
H = Hardware-ready

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# LTE Cat 4 modules



| LTE Cat 4 modules |           |           |           |           |           |           |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                   | TOBY-L200 | TOBY-L201 | TOBY-L210 | TOBY-L220 | TOBY-L280 | MPCI-L200 | MPCI-L201 | MPCI-L210 | MPCI-L220 | MPCI-L280 |
| <b>Grade</b>      |           |           |           |           |           |           |           |           |           |           |
| Automotive        | •         |           | •         |           | •         |           |           |           |           |           |
| Professional      | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| Standard          |           |           |           |           |           |           |           |           |           |           |
| <b>Physical</b>   |           |           |           |           |           |           |           |           |           |           |

Image



| Size [mm]                | 24.8 x 35.6 x 2.6          |                 |                      |                   |                      | 30.0 x 51.0 x 3.7                         |                 |                      |                   |                      |
|--------------------------|----------------------------|-----------------|----------------------|-------------------|----------------------|---|-----------------|----------------------|-------------------|----------------------|
| Package and pins         | 152-pin LGA                |                 |                      |                   |                      | 52-pin PCI Express Full-Mini Card Type F2 |                 |                      |                   |                      |
| Region                   | North America              | North America   | EMEA/APAC            | Japan             | S. America/APAC      | North America                             | North America   | EMEA/APAC            | Japan             | S. America/APAC      |
| <b>Access technology</b> |                            |                 |                      |                   |                      |   |                 |                      |                   |                      |
| GSM/GPRS bands           | Q                          |                 | Q                    |                   | Q                    | Q   |                 | Q                    |                   | Q                    |
| UMTS/HSPA [MHz]          | 850, 900, 1700, 1900, 2100 | 850, 1900       | 850, 900, 1900, 2100 | 850, 900, 2100    | 850, 900, 1900, 2100 | 850, 900, 1700, 1900, 2100                | 850, 1900       | 850, 900, 1900, 2100 | 850, 900, 2100    | 850, 900, 1900, 2100 |
| LTE FDD bands            | 2, 4, 5, 7, 17             | 2, 4, 5, 13, 17 | 1, 3, 5, 7, 8, 20    | 1, 3, 5, 6, 8, 19 | 1, 3, 5, 7, 8, 28    | 2, 4, 5, 7, 17                            | 2, 4, 5, 13, 17 | 1, 3, 5, 7, 8, 20    | 1, 3, 5, 6, 8, 19 | 1, 3, 5, 7, 8, 28    |
| Data rate                | Cat 4                      | Cat 4           | Cat 4                | Cat 4             | Cat 4                | Cat 4                                     | Cat 4           | Cat 4                | Cat 4             | Cat 4                |
| <b>Interfaces</b>        |                            |                 |                      |                   |                      |   |                 |                      |                   |                      |
| UART                     | 1                          | 1               | 1                    | 1                 | 1                    |   |                 |                      |                   |                      |
| USB                      | 1                          | 1               | 1                    | 1                 | 1                    | 1   | 1               | 1                    | 1                 | 1                    |
| DDC (I2C)                |                            |                 | 1                    | 1                 | 1                    |   |                 |                      |                   |                      |
| SDIO (master)            | 1                          | 1               | 1                    | 1                 | 1                    |   |                 |                      |                   |                      |
| GPIO                     | 14                         | 14              | 14                   | 14                | 14                   |   |                 |                      |                   |                      |
| <b>Audio</b>             |                            |                 |                      |                   |                      |   |                 |                      |                   |                      |
| Digital audio            | 1                          |                 | 1                    | 1                 | 1                    |   |                 |                      |                   |                      |
| <b>Features</b>          |                            |                 |                      |                   |                      |   |                 |                      |                   |                      |
| Network indication       | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| Antenna detection        | •                          | •               | •                    | •                 | •                    |   |                 |                      |                   |                      |
| Embedded TCP/UDP         | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| Embedded FTP/HTTP        | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| Embedded TLS 1.2         | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| FW update via serial     | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| FOTA                     | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| Rx diversity             | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| Dual stack IPv4/IPv6     | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |
| MIMO 2x2                 | •                          | •               | •                    | •                 | •                    | •   | •               | •                    | •                 | •                    |





Q = Quad-band

Cat 4 = LTE Cat 4 (150 Mb/s download, 50 Mb/s upload)

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# GSM and UMTS modules



|                                 | GSM/GPRS modules  |   |                        | UMTS/HSPA(+) modules  |                                 |  |                                 |
|---------------------------------|---|---|------------------------|---|---------------------------------|--|---------------------------------|
|                                 | SARA-G450   | SARA-G340 <sup>A</sup>  | SARA-G350 <sup>A</sup> | SARA-U201 <sup>A</sup>  | LISA-U200                       | LISA-U201  | LISA-U230                       |
| <b>Grade</b>                    |   |   |                        |   |                                 |  |                                 |
| Automotive                      |   |   | •                      | •   |                                 | •  |                                 |
| Professional                    |   | •   | •                      | •   | •                               | •  |                                 |
| Standard                        | •   |   |                        |   |                                 |  | •                               |
| <b>Physical</b>                 |   |   |                        |   |                                 |  |                                 |
| Image                           |  |  |                        |  |                                 |  |                                 |
| Size [mm]                       | 16.0 x 26.0 x 2.4   |   |                        | 16.0 x 26.0 x 3.0   | 22.4 x 33.2 x 2.6               |  |                                 |
| Package and pins                | 96-pin LGA  |   |                        | 96-pin LGA  | 76-pin LCC                      |  |                                 |
| Region                          | Global  | EMEA/APAC   | Global                 | Global  | Global                          | Global   | Global                          |
| <b>Access technology</b>        |   |   |                        |   |                                 |  |                                 |
| GSM/GPRS bands                  | Q   | D1  | Q                      | Q   | Q                               | Q  | Q                               |
| UMTS/HSPA [MHz]                 |   |   |                        | 800, 850, 900, 1900, 2100   | 800, 850, 900, 1700, 1900, 2100 | 800, 850, 900, 1900, 2100  | 800, 850, 900, 1700, 1900, 2100 |
| Data rate                       | L*  | L   | L                      | M   | M                               | M  | +                               |
| <b>Positioning</b>              |   |   |                        |   |                                 |  |                                 |
| External GNSS control via modem | •   | •   | •                      | •   | •                               | •  | •                               |
| AssistNow software              | •   | •   | •                      | •   | •                               | •  | •                               |
| CellLocate®                     | •   | •   | •                      | •   | •                               | •  | •                               |
| eCall / ERA GLONASS             |   | •   | •                      | •   | •                               | •  |                                 |
| <b>Interfaces</b>               |   |   |                        |   |                                 |  |                                 |
| UART                            | 3   | 2   | 2                      | 2   | 1                               | 1  | 1                               |
| USB                             |   |   |                        | 1   | 1                               | 1  | 1                               |
| DDC for u-blox GNSS             | •   | 1   | 1                      | 1   | 1                               | 1  | 1                               |
| SPI                             |   |   |                        |   | 1                               | 1  | 1                               |
| GPIO                            | 4   | 4   | 4                      | 9   | 14                              | 14   | 14                              |
| <b>Audio</b>                    |   |   |                        |   |                                 |  |                                 |
| Analog audio                    | 1   | 1   | 1                      |   |                                 |  |                                 |
| Digital audio                   |   | 1   | 1                      | 1   | 2                               | 2  | 2                               |
| <b>Features</b>                 |   |   |                        |   |                                 |  |                                 |
| Antenna detection               | •   | •   | •                      | •   | •                               | •  | •                               |
| Jamming detection               | •   | •   | •                      | •   | •                               | •  | •                               |
| Embedded TCP/UDP                | •   | •   | •                      | •   | •                               | •  | •                               |
| Embedded FTP/HTTP               | •   | •   | •                      | •   | •                               | •  | •                               |
| Embedded SSL                    | •   | •   | •                      | •   | •                               | •  | •                               |
| FW update via serial            | •   | •   | •                      | •   | •                               | •  | •                               |
| FOTA                            |   |   |                        | •   | •                               | •  |                                 |
| Rx diversity                    |   |   |                        |   |                                 |  | •                               |
| Dual stack IPv4/IPv6            | •   | •   | •                      | •   | •                               | •  |                                 |

\* = GPRS class 12 (downgradeable to class 10 via AT command)

D1 = Dual-band 900/1800 MHz  
D2 = Dual-band 850/1900 MHz  
Q = Quad-band

L = GPRS (85.6 kb/s)  
M = 7.2 / 5.76 Mb/s down/up

A = ATEX variant available  
+ = 21.1 / 5.76 Mb/s down/up

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# Form factors, technologies, and regions



For each module variant, the main and fallback technologies are shown in the regions where they are to be used.

| Modules        | EMEA |   |   |   |   | North America |   |   |   |   | South America |   |   |   |   | APAC |   |   |   |   |
|----------------|------|---|---|---|---|---------------|---|---|---|---|---------------|---|---|---|---|------|---|---|---|---|
|                | G    | U | N | R | L | G             | U | N | R | L | G             | U | N | R | L | G    | U | N | R | L |
| SARA-G450      | •    |   |   |   |   | •             |   |   |   |   | •             |   |   |   |   | Δ    |   |   |   |   |
| SARA-G340      | •    |   |   |   |   |               |   |   |   |   |               |   |   |   |   | Δ    |   |   |   |   |
| SARA-G350      | •    |   |   |   |   | •             |   |   |   |   | •             |   |   |   |   | Δ    |   |   |   |   |
| SARA-U201      | •    | • |   |   |   | •             | • |   |   |   | •             | • |   |   |   | Δ    | ◆ |   |   |   |
| SARA-N300      |      |   |   |   |   |               |   |   |   |   |               |   |   |   |   |      |   |   | C |   |
| SARA-N310      |      |   | • |   |   |               |   |   |   |   |               |   | • |   |   |      |   |   | • |   |
| SARA-R500S     |      |   | • | • |   |               |   | • | • |   |               |   | • | • |   |      |   |   | • | • |
| SARA-R510S     |      |   | • | • |   |               |   | • | • |   |               |   | • | • |   |      |   |   | • | • |
| SARA-R510M8S   |      |   | • | • |   |               |   | • | • |   |               |   | • | • |   |      |   |   | • | • |
| SARA-R422      | •    |   | • | • |   | •             |   | • | • |   | •             |   | • | • |   | Δ    |   |   | • | • |
| SARA-R422S     | •    |   | • | • |   | •             |   | • | • |   | •             |   | • | • |   | Δ    |   |   | • | • |
| SARA-R422M8S   | •    |   | • | • |   | •             |   | • | • |   | •             |   | • | • |   | Δ    |   |   | • | • |
| SARA-R410M-63B |      |   |   |   |   |               |   |   |   |   |               |   |   |   |   |      |   |   |   | J |
| SARA-R410M-73B |      |   |   |   |   |               |   |   |   |   |               |   |   |   |   |      |   |   |   | K |
| SARA-R410M-83B |      |   |   |   |   |               |   |   |   |   |               |   |   |   |   |      |   |   | A | A |
| SARA-R410M-52B |      |   |   |   |   |               |   |   | • |   |               |   |   | • |   |      |   |   |   |   |
| SARA-R410M-02B |      |   | • | • |   |               |   |   | • | • |               |   |   | • | • |      |   |   | • | • |
| SARA-R412M     | •    |   | • | • |   | •             |   | • | • |   | •             |   | • | • |   | Δ    |   |   | • | • |
| LARA-R202      |      |   |   |   |   |               | • |   | • |   |               |   |   |   |   |      |   |   |   |   |
| LARA-R203      |      |   |   |   |   |               |   |   | • |   |               |   |   |   |   |      |   |   |   |   |
| LARA-R204      |      |   |   |   |   |               |   |   | • |   |               |   |   |   |   |      |   |   |   |   |
| LARA-R211      | •    |   |   | • |   |               |   |   |   |   |               |   |   |   |   |      |   |   |   |   |
| LARA-R281      |      | • |   | • |   |               |   |   |   |   |               |   |   |   |   |      |   |   |   |   |
| LARA-R220      |      |   |   |   |   |               |   |   |   |   |               |   |   |   |   |      |   |   |   | J |
| LARA-R280      |      |   |   |   |   |               |   |   |   |   |               |   |   |   |   |      | • |   | • |   |
| TOBY-R200      |      |   |   |   |   | •             | • |   | • |   |               |   |   |   |   |      |   |   |   |   |
| TOBY-R202      |      |   |   |   |   | •             |   |   | • |   |               |   |   |   |   |      |   |   |   |   |
| TOBY/MPCI-L200 |      |   |   |   |   | •             | • |   | • | • | •             |   |   |   | • |      |   |   |   |   |
| TOBY/MPCI-L201 |      |   |   |   |   | •             |   |   | • |   | •             |   |   |   | • |      |   |   |   |   |
| TOBY/MPCI-L210 | •    | • |   |   | • |               |   |   |   |   |               |   |   |   |   | Δ    | ◆ |   |   | ◆ |
| TOBY/MPCI-L220 |      |   |   |   |   |               |   |   |   |   |               |   |   |   |   |      |   | J |   | J |
| TOBY/MPCI-L280 |      |   |   |   |   |               |   |   |   |   | •             | • |   |   | • | Δ    | • |   |   | • |

**Legend:**

- G** = GSM/GPRS
- U** = UMTS/HSPA
- N** = NB-IoT
- R** = LTE-M, LTE Cat 1
- L** = LTE Cat 4

- = Main technology
- = Fallback technology
- ◌ = Main technology; supported in most, but not all, countries of the region
- Δ = GSM/GPRS in APAC, but not supported in Japan or Korea
- ◆ = Some versions have a special firmware version for Japan and Korea; see product documentation
- C = China only
- J = Japan only
- K = Korea only
- A = Australia primarily

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