

# ARCUS

The power of choice



## HARDWARE

Maximum load balancing capacity	1 Gbps
Phantom VPN encryption	1 Gbps
IPSec VPN encryption	1 Gbps
Maximum number of simultaneous WANs	7
Dimensions w x h x d	200 mm x 55 mm x 280 mm
Weight	2.20 kg
Operating temperature	-25°C to 60°C
Humidity	0% to 95%
Power supply	3-pin terminal block (+,-,ignition), +9~36VDC ATX mode support ignition delay on/off control
Power consumption	10-45W depending on use
Ethernet (WAN and/or LAN)	3 x M12 X-coded GBE
PoE .at IN/OUT	M12 X-coded PoE 802.3af OUT
USB	2 x USB 2.0
GPS	1 x SMA female
Integrated cellular	3 x cellular (5G/4G/3G/2G)
SIM card slot	6 x nano
eSIM support	EM12, RM500, RM502, RM505 support eUICC with 4FF
WiFi (WAN and/or LAN)	5GHz/2.4GHz dual-band (optional)
LTE antenna	10 x SMA female
WiFi antenna	3 x RP-SMA female
Rating	MIL-STD-810G vibration/shock resistance & E-Mark

**A R C U S**

3YP-CWY-M6.3-E3L3W1 / EAN 7090049150517

ARCUS accepts 1 Mini-PCle + up to 2 x M.2 + 1 Wireless Adapter. Available components for each slot are as follows:

Mini-PCle	Quectel EG25G or Telit LM940 CAT11 or UNI450 ML620 EU LTE CAT 4
M.2 Slot 1	Quectel EM12-G CAT 12 or Quectel RM500Q-GL 5G or Quectel RM505Q-AE 5G Quectel RM520N-GL 5G
M.2 Slot 2	Quectel EM12-G CAT 12 or Quectel RM500Q-GL 5G or Quectel RM505Q-AE 5G Quectel RM520N-GL 5G
Wireless Adapter	Complex WLE600 or Complex WLE900

# ARCUS

## Components Specification

### Mini-PCle

### Quectel EG25-G

Region/Operator	Global
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/25 B26/B28
LTE-TDD	B38/B39/B40/B41
WCDMA	B1/B2/B4/B5/B6/B8/B19
GSM/EDGE	B2/B3/B5/B8

### Mini-PCle

### Telit LM940

Region/Operator	Global
LTE-FDD	B1/B25(B2)/B3/B66(B4)/B26(B5)/B7/B8/ B12(17)/B13/B20/B28/B29/B30(Rxonly)
LTE-TDD	B38/B40/B41
WCDMA	B1/B2/B4/B5/B8
2 x CA	1A+3A;1A+5A;1A+7A;1A+8A;1A+20A;1A+28A; 3A+3A;3A+5A;3A+7A;3A+8A;3A+20A;3A+28A;5A+7A; 5A+40A;7A+7A;7A+8A;7A+20A;7A+28A; 28A+40A;40A+40A;3C;5B;7B;7C;38C;40C
3 x CA	1A+3A+5A;1A+3A+8A;1A+3A+20A;1A+3A+28A; 1A+5A+7A;1A+7A+20A;1A+7A+28A; 3A+3A+8A;3A+7A+8A;3A+7A+20A; 3A+7A+28A;1A+3C;3A+7B;3A+7C; 3C+5A;3C+7A;3C+20A; 5A+40C;7B+28A;7C+28A; 28A+40C;40D

**Mini-PCIe**

**ML620(LTE 450 MHz)**

Region/Operator	Europe
Diversity	Yes
2 x 2 MIMO	B3/B7/B20
LTE Max	Cat. 4 DL 150 Mbps / UL 50 Mbps
LTE-FDD	B3/B7/B20/B31/B72
LTE-TDD	B40

**M.2**

**Quectel EM12-G**

Region/Operator	Global
UL 2CA	B3+B3; B41+B41
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/ B20/B21/B25/B26/B28/B29/B30/B32/B66
LTE-TDD	B38/39/B40/B41
WCDMA	B1/B2/B3/B4/B5/B8/B19
2 x CA	B1+3/5/18/19/20/26; B2+2/4/5/12/13/17/29/30/66; B3+3/5/7/8/19/20/28; B4+4(CA_4C only) /5/12/13/17/29/30; B5+7/25/30/66; B7+7/20/28; B12+25; B12+30; B13+66; B19+21; B20+B32; B25+25; B25+26; B25+41; B29+30; B38+38(CA_38C only); B40+B40; B41+B41; B66+B66;
3 x CA	DL interband 3CA: B1+3+5/7/8/19/20/28; B1+7+20; B2+4+5; B2+4+13; B2+5+30; B2+12+30; B2+29+30; B3+7+20; B3+7+28; B3+7+8; B4+5+30; B4+12+30; B4+29+30; B5+66+2; B13+66+2; B66+12+30; B66+29+30; B66+5+30; B2+B14+B66; DL2 intraband plus interband 3CA: B2+2+5; B2+2+13; B3+3+7; B3+7+7; B3+3+20; B3+3+28; B3+3+1; B4+4+5; B4+4+13; B7+7+28; B5+66+66; B13+66+66; B66+66+2; B39+B39+B41; B39+B41+B41; B14+B66+B66; DL3 intraband 3CA: B40+40+40; B41+41+41; B66+66+66;

**M.2 RM500Q - GL**

Region/Operator	Global
5G NR	3GPP Release 15 NSA/SA operation, Sub-6 GHz
5G NSA Bands	n41/n77/n78/n79
5G SA Bands	n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/ n41/n48/n66/n71/n77/n78/n79
5G DL 4 x 4 MIMO	n1/n2/n3/n7/n25/n38/n40/n48/n66/n77/n78/n79
5G UL 2 x 2 MIMO	n41/n77/n78/n79
LTE Category	DL CAT 16 / UL CAT 18
DL 4 x 4 MIMO	B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/B40/B41/ B42/B43/B48/B66
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/ B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B48
WCDMA	B1/B2/B3/B4/B5/B6/B8/B19

**M.2 RM505Q - AE**

Region/Operator	Global
5G NR	3GPP Release 15 NSA/SA operation, Sub-6 GHz
5G NSA Bands	n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/ n48/n66/n71/n77/n78/n79
5G SA Bands	n1/n2/n3/n7/n8/n12/n20/n25/n28/n38/n40/n41/ n48/n66/n71/n77/n78/n79
5G DL 4 x 4 MIMO	n1/n2/n3/n7/n25/n38/n40/n41/n48/n66/n77/n78/n79
5G UL 2 x 2 MIMO	n41
LTE Category	DL CAT 16 / UL CAT 18
DL 4 x 4 MIMO	B1/B2/B3/B4/B7/B25/B30/B38/B39/B40/B41/B42/ B43/B48/B66
LAA	B46
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/ B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B48
WCDMA	B1/B2/B3/B4/B5/B6/B8/B19

**M.2**

**RM520N - GL**

Region/Operator	Global
Dual SIM	Yes
5G NR	3GPP Release 16 NSA/SA operation modes on all 5G bands
5G NSA Bands	EU: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n71/n75/n76/n77/n78 Global: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n75/n76/n77/n78/n79
5G SA Bands	EU: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n71/n75/n76/n77/n78 Global: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n75/n76/n77/n78/n79
5G DL 4 x 4 MIMO	EU: n1/n3/n7/n38/n40/n41/n77/n78 Global: n1/n2/n3/n7/n25/n30/n38/n40/n41/n48/n66/n70/n77/n78/n79
5G UL 2 x 2 MIMO	EU: n38/n40/n41/n77/n78 Global: n38/n41/n48/n77/n78/n79
LTE category	DL CAT 19 / UL CAT 18
LTE-FDD	EU: B1/B3/B5/B7/B8/B20/B28/B32/B71 Global: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
LTE-TDD	EU: B38/B40/B41/B42/B43 Global: B34/B38/B39/B40/B41/B42/B43/B46(LAA)/B48
WCDMA	EU: B1/B5/B8 Global: B1/B2/B4/B5/B8/B19
LTE DL 4 x 4 MIMO	EU: B1/B3/B7/B38/B40/B41/B42/B43 Global: B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66

**WIRELESS ADAPTOR**

**Compex WLE600**

Theoretical Data Rate	867 Mbps
Frequency	2.4GHz,5GHz
Protocol	a,ac,b,g,n

**WIRELESS ADAPTOR**

**Compex WLE900**

Theoretical Data Rate	1.3 Gbps
Frequency	2.4GHz,5GHz
Protocol	a,ac,b,g,n

**ANTENNAS**

LTE antenna	4 x or 8 x SMA female, depending on model
WiFi antenna	2 x RP-SMA female
GPS antenna	1 x SMA female
Antenna frequencies	C1-0 / C2-0: 1400 -5000 MHz C1-1 / C2-1: 600 – 6000 MHz C1-2 / C2-2: 600 – 5000 MHz C1-3 / C2-3: 1400 – 6000 MHz

**RATINGS & TESTS**

Rating	E-Mark
Norway 5G NSA tests	Single modem DN: 805 Mbps, UP: 161 Mbps

Powered by CelerwayOS, our portfolio of solutions is ideal for large deployments in a multitude of use cases.

## celerwayOS

Our lightweight and robust router software is built on open source and designed with mobile in mind. It continuously monitors traffic and network health against dozens of parameters and performs intelligent routing across multiple simultaneous WANs.

## phantom

A key component of CelerwayOS that enables:

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Dynamic Adaptive VPN load balancing

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Seamless switching between multiple networks

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Uninterrupted high-speed VPN and site-to-site communications

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Ultra-flexible network topologies

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On-premise or cloud-based operation on virtual machines or x86 hardware

## nimbus

Our remote administration system for deploying and managing devices running CelerwayOS:

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User-friendly dashboard and comprehensive live reporting

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Powerful features for mass deployment

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Secure access with 2-factor authentication

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Flexible notification and alerts system

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Timely and worry-free firmware updates

At Celerway, we're on a mission to keep business ahead of the mobile curve.

Founded in Oslo, Norway, Celerway masters the complexity at the Edge, empowering our partners and customers to create and deliver the right Edge products and services at the right time, with the best available connectivity, security, extensibility, and manageability.

The Celerway mobile-first platform enables customers to harness the power of multiple simultaneous wireless and wired connections to take their networks where they want them to be, thus expanding the reach of their SD-WAN or edge and branch networking solutions.

Celerway takes pride in the quality and security of its offerings. The company has been awarded 4 certifications by the International Organization for Standardization: ISO 9001, ISO 14001, ISO 45001, and ISO 27001, with more pending.

