



Fractus

Fractus enables up to 7 simultaneous WAN connections (1 cellular).

Choose Fractus to provide connectivity with 4G backup for small offices using standard office applications. Available with CAT4, CAT6 and CAT11.

Maximum load balancing capacity	950 Mbps
Phantom VPN encryption	180 Mbps
IPSec VPN encryption	60 Mbps
Maximum number of simultaneous WANs	7
Dimensions w x h x d	255mm x 175mm x 25mm
Weight	0.8kg
Operating temperature	-10°C to 50°C
Humidity	5% to 95%
Power supply	Barrel, 12V, 2A
Integrated cellular	1 x LTE
Ethernet (WAN and/or LAN)	5 x 10/100/1000 Mbps RJ-45
Wi-Fi (WAN and/or LAN)	2.4GHz + 5GHz simultaneous dual-band
USB	1 x USB 2.0
Mini-PCle	1
SIM card slot	1 x full size
Antenna connectors LTE	2 x SMA female
Wi-Fi (2.4 GHz)	2 x RP-SMA female
Wi-Fi (5 GHz)	2 x SMA female

Celerway's multi-WAN routers and M2M devices are powered by CelerwayOS, providing the best price per performance in their class. Priced to scale, our hardware solutions are ideal for large deployments in transportation, retail, and more.

celerwayOS

Our lightweight and robust router software, 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:

Dynamic VPN load balancing

Seamless switching between multiple networks

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

Ultra-flexible network topologies

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

nimbus

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

User-friendly dashboard and comprehensive live reporting

Powerful features for mass deployment

Secure access with 2-factor authentication

Flexible notification and alerts system

Timely and worry-free firmware updates



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

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.

Based in Oslo, Norway, Celerway was founded in 2012 to bring the results of advanced research into the real world. Since then, we have proven our mobile-first CelerwayOS with customers in Norway, Switzerland, the UK, and beyond.



Fractus

This technical specification is subject to change without notice. The device is available in 3 versions:

Fractus2 CAT4

Fractus2 CAT6

Fractus2 CAT11

Wi-Fi module	MT7603 (2.4) + MT7612 (5) simultaneous
Wi-Fi protocol	b,g,n + a,b,g,n,ac
Wi-Fi theoretical data rate	300 Mbps + 867 Mbps
Fractus2 CAT4	
Frequency bands LTE-FDD	B1, B3, B5, B7, B8, B20
Frequency bands LTE-TDD	B38, B40, B41
Frequency bands WCDMA	B1, B5, B8
Frequency bands GSM/EDGE	B3, B8
LTE theoretical data rate	DN: 150 Mbps, UP: 50 Mbps
Fractus2 CAT6	
Frequency bands LTE-FDD	B1, B3, B5, B7, B8, B20, B28, B32
Frequency bands LTE-TDD	B38, B40, B41
Frequency bands WCDMA	B1, B3, B5, B8
LTE theoretical data rate	DN: 300 Mbps, UP: 50 Mbps
2 x CA	B1+B1/B5/B8/B20/B28; B3+B3/B5/B7/B8/B20/B28; B7+B5/B7/B8/B20/B28; B20+B32; B38+B38; B40+B40; B41+B41

Fractus2 CAT11

Frequency bands LTE-FDD	B1, B25(B2), B3, B66(B4), B26(B5), B7, B8, B12(17), B13, B20, B28, B29, B30(Rx only)
Frequency bands LTE-TDD	B38, B40, B41
Frequency bands WCDMA	B1, B2, B4, B5, B8
LTE theoretical data rate	DN: 600 Mbps, UP: 75 Mbps
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
