



Connected Media Productions

By Celerway

Software highlights

IPSec and Open VPN

Celerway Phantom VPN

Seamless handover and load balancing

Optional threat protection and content filtering

Advanced and holistic quality indicators

Quota management

Captive portal

Smart Queue Management (QoS)

App-specific load balancing and handover

Linux firewall

Software-defined LAN/WAN ethernet ports

Locking of LTE bands

VMs for VPN termination

Nimbus Management

Cloud: Kubernetes

2-factor authentication

Rest-API for integration

Mass-deployment

Config management

SIM management

Statistics and reports

Alarms and troubleshooting

Support dashboards

Hierarchical and group access

GPS tracking

Live quality status of all interfaces

Secure access to router UI



Examples

Broadcast vehicles

Film sets

Wi-Fi

File uploads

Celerway provides media productions with secure, robust and high-speed Internet through its routers ranging from small handhelds to ruggedized high-end devices. All units are managed in the same management system and benefit from Celerway's smart seamless load balancing. We highlight here the ruggedized **Celerway Arcus** supporting an extended range of temperature and voltage (incl. ignition delay). Standard set up for this router is 2xCAT12 modems and a dual-Wi-Fi radio (2.4/5GHz). An extra CAT4, CAT6, CAT11 or LTE450 modem can be added to provide even more resilient and high-quality wireless broadband connections. All modems support the Dual-SIM feature. Possibility to upgrade CAT12 modules to CAT20 and 5G when available.

As the Arcus router delivers up to 1 Gbit/s 4G capacity, it provides broadcasters with the practicability of: i) transferring large files, ii) web surfing for many users, e.g., guest Wi-Fi to staff working on recording scenes, iii) live radio transmissions, iv) accessing digital platforms where there are applications requiring a lot of bandwidth like film editing, v) outdoor video conferencing, vi) accessing multiple cloud applications such as Google Drive, Gmail, Skype, etc., that do not tolerate much latency or IP address swapping.

Celerway products, **designed, developed and supported from Norway**, provide critical media productions with resilient and high-quality communications. Our technology is based on a holistic approach to quality measurements, >50 physical parameters collected, combined with optimal and seamless load balancing and failover. This seamless user experience, also delivered in highly mobile scenarios and for VPNs, is obtained by using the Celerway Phantom gateway.

Highlights

- Up to 3 x LTE Modems
- 6 SIM card slots
- Dual Band Wi-Fi (WAN and/or LAN)
- GPS
- 3 x Ethernet (M12 X-coded) ports (WAN/LAN)
- PoE out on one M12 port
- Up to 7 simultaneous WAN connections
- 990 Mbit/s Load Balancing capacity
- 800+ Mbit/s VPN encryption

Interfaces

- 3 x M12 X-coded GBE (also PoE)
- 2 x USB ports
- Various COM ports
- 2 x Mini-PCIe
- 2 x M.2
- 6 full size SIM slots

Physical

- Operating temperature from -20 to 70°C
- Humidity: 5-95%
- Dimensions (W x H x D): 200mm x 55mm x 280mm
- Weight: 2.2 kg.
- Mounting brackets
- MIL-STD-810G vibration/shock resistance
- E-mark (E13) (Q4 2019)
- 3 years hardware warranty

Power

3-pin terminal block (+,-,ignition), +9~36VDC, ATX mode support ignition delay on/ off control

Antenna connectors

- LTE: 6 x SMA female
- GPS: 1x SMA female
- WiFi: 3 x RP-SMA female

