Data Sheet – Exentric Tunnel Network

Performance and Capacity
- Fiber: 1.25 Gbit/s
- Cat5e/6: 1 Gbit/s
- WiFi failover link: typically 250 Mbit/s
- WiFi user network:
    - Typically 400 Mbit/s near base station
    - Typically 200 Mbit/s between base stations (depending on equipment/antenna)
- Internet: Up to 1,25 Gbit/s with broadband connection / 5G router

Mechanical
- Enclosure: Polycarbonate, IP65, IK10
- Dimensions: (400 x 300 x 150) mm
- Mounting: Installed on aluminum bracket for wall mounting

Components
- Three unit types:
    - Main router/gateway
    - LAN base station
    - Backup BS/main router/gateway
- Industrial routers: Teltonika RUTX/RUTM series, 2 units
- Industrial switch: Teltonika TSW202
- Antennas: Four combined 2.4/5 GHz antennas

Connections
- 2 x ODC fiber, IP65
- 1 x RJ45 Ethernet PoE 802.3af/at, max 25 W, IP65 (PoE normally disabled during battery operation)
- 230 VAC connection via 216/6(7) IP67 connector
- 1 x RJ45 WAN connection (main router/gateway only)
- Option: Up to 4 x RJ45 PoE 802.3af/at, total max 40 W

Indicator Lights

Internet: Green = connection active

Battery: Orange = battery operation

Mains power: Blue light around On/Off/Reset button while orange indicator is off

Switch

On/Off/Reset button with light indicator, IP65

Power Consumption and Electrical Data
- 230 VAC
- Short-circuit protection on surge protector, power supply and battery
- Surge protection
- Inrush current limitation: 0.2 A
- Li-ion battery: 100 Wh
- UPS (Uninterruptible Power Supply)
- Battery capacity: minimum 2 hours without PoE load (expandable)
- Maximum PoE power: 25 W per port, 40 W total
- Nominal consumption:
  - Main router/gateway: approx. 20 W
  - LAN base station: approx. 15 W
- Maximum consumption:
  - Main router/gateway: 75 W with maximum PoE load
  - LAN base station: 66 W with maximum PoE load

Radio
- WiFi 2.4 GHz (802.11g/n), 20 dBm transmit power
- WiFi 5 GHz (802.11ac/n), 23 dBm transmit power

Fiber
- Military field fiber, singlemode, 2-channel
- Coiled on steel/plastic field drum (500 x 500 x 300) mm
- ODC pre-terminated connectors
- Standard lengths: 520 m and 270 m
- Spliceable for extended length and option to order custom lengths

Ethernet Cable
- 4-pair Cat5e UTP, outdoor
- IP65 RJ45 connectors on both ends
- Standard length: 30 m
- Option to order up to 100 m length

Mounting Height
- As high and free as possible on tunnel wall

Environment
- Protection rating: IP65
- Storage temperature: 0°C to +25°C
- Operating ambient temperature:
  - Main router/gateway: −30°C to +40°C
  - LAN base station: 0°C to +40°C