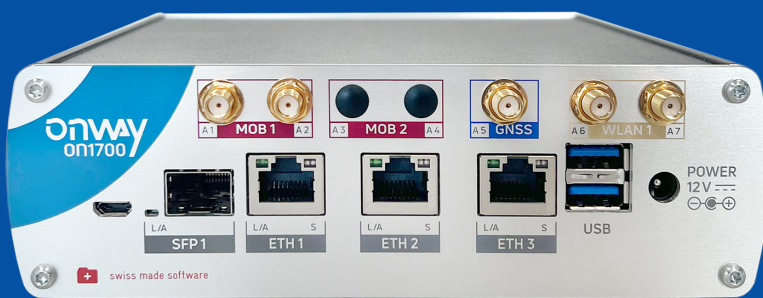


# Datasheet ON1700

- Excellent computing and communication unit for all kinds of industrial applications: Networking and remote management of machines, vending machines, displays (advertising, passenger information, routing, etc.), charging stations, surveillance cameras, IoT and Smart City applications, ideal for replacing 2G/3G etc.
- IoT edge computing / gateway functionality thanks to preprocessing, filtering, caching and monitoring of local sensor values
- High-performance quad-core x86-64 processor
- Wired as well as wireless communication options: Ethernet, USB, mobile communications, WiFi
- Automatic «Zero Touch» deployment ex works, i.e. devices can be installed directly from production and no manual configuration work is necessary.
- Secure transfer of usage data via VPN (IPsec with certification)
- Central Application for Monitoring and Administration including Software updates, patches etc.
- Secure and constant connection with central management system



## Applications

- Automation of sales and logistics applications and production facilities
- Modern software architecture, perfect for mobile cloud applications
- Monitoring of vital router functions and its environment

## Features

- GPS / GLONASS localisation
- High-performance quad-core x86-64 processor
- Automatic «Zero Touch» deployment
- Very fast boot process
- 802.1x based Network Access-Control

## Performance

- up to 1Gbps local routing
- up to 450 Mbps VPN throughput via LTE

# Technical data ON1700

**Dimensions (W x H x D):** 169 x 55 x 158 mm  
**Weight:** 850 g,  
depending on options  
**Operating temperature:** -25 to +70 °C  
**Ingress Protection Level:** IP40

## 1–2x Mobile / Cellular (optional)

### Multimode LTE/UMTS

4G – LTE: B1 (2100), B3 (1800), B7 (2600), B8 (900),  
B20 (800DD), B5 (850), B38 (TDD 2600), B40 (TDD  
2300), B28 (700 APAC), B41 (TDD 2500), B32 (1500)  
3G – UMTS: B1 (2100), B8 (900), B3 (1800), B5 (850)

**LTE Specification:** LTE Cat 6, 2x2 MIMO,  
DL 300 Mbps/UL 50 Mbps

**Connectors:** 4x SMA female

**SIM:** 2x Mini SIM – 2FF

## 1x WiFi/WLAN (optional)

**Standard:** IEEE 802.11a/b/g/n/ac

**Dual-band:** either 2.4 or 5 GHz 2x2 MIMO

**Bit rate (max):** 780 Mbps

**Modes:** Client or access point (up to 100 clients)

**FCC ID:** TK4WLE600VX

**Connectors:** 2x SMA female

## Ethernet

**Standard:** 3x Gigabit Ethernet

**Ethernet standard:** 1000BASE-T, Auto MDIX

**Speed:** 10/100/1000 Mbps

**1x SFP:** 1000BASE-T Auto MDIX, SFP standard  
depending on module, ask for supported modules,

**Speed:** 10/100/1000 Mbps

**Connectors:** 3x RJ45, 1x SFP cage (mini GBIC)

## Positioning

**Standard:** 1x Multi-GNSS

**Receiver:** GPS, BeiDou, GLONASS

**Connector:** 1x SMA female

## Mounting

DIN-Rail

## USB

**Standard:** 2x USB 3.0 Host Port

**Connector:** 2x Type A

## System

**Core:** 1GHz Quad Core x86-64 CPU, 4GB RAM  
Up to 1TB SSD)

## Power

**Nominal Input Voltage:** 12 VDC

**Average Power Consumption:** 6 W

**Maximal Power Consumption:** 10 W

**Connector:** 2.5 mm DC jack

## Certifications

**Compliance Domain:** CE according to 2014/53/EU  
(RED), 2011/65/EU (RoHS)