



Q2-CLI/Q2-AP dual radio AP/Client

Rail onboard/ stationary WLAN client and access point 802.11a/b/g/n dual radio AP/Client

The Q2-CLI/Q2-AP outdoor dual radio AP/Client is the ruggedized wireless solution for railway onboard, ideal for train-to-ground (T2G) communication. The “heart” of the device is based on multicore Power Architecture® T2080 processor with high computing power, and provides high encryption level ideal for cybersecurity applications. All connectors, such as Power, Ethernet (including the ability to connect and operate in HSR-type networks), GPIO etc. are located on one side, at the front of the aluminum housing, while some service connectors are placed under the aluminum cover. The device complies with EN50155, EN62368-1 and EN45545 standard and provides IP65 rating. For advanced diagnostic purposes application can use a built-in mSATA storage. Thanks to universal IO and its computing power the device can successfully perform management tasks for other onboard components.

| GENERAL SPECIFICATION: | |
|------------------------------|---|
| WLAN interfaces | 2 x WLAN radio module (2.4 / 5.2 GHz) 4 x TNC (F) antenna connectors |
| Communication standards | IEEE 802.11a/b/g/n (Wireless System) IEEE 802.11k (Radio Resource Measurement) IEEE 802.1Q VLAN IEEE 802.11i (Wireless Security) IEEE 802.3u for 10/100BASE-T IEEE 802.3ab for 1000BASE-T IEEE 802.1X (Network Security) IEEE 802.11r (Proactive roaming/handover) IEEE 802.11k (Radio Resource Measurement) IEEE 802.1Q VLAN IEC 62439-3:2016 (High Availability Seamlessly Redundancy) High radio power up to 1000mW 2.4GHz / 500mW 5.2GHz |
| Main CPU | NXP T2080, Power Architecture, 1.8 GHz |
| Expandable storage | 1 x mSATA |
| I/O INTERFACES ON THE FRONT: | |
| With direct access | 1 x DC Input |

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Technology customized
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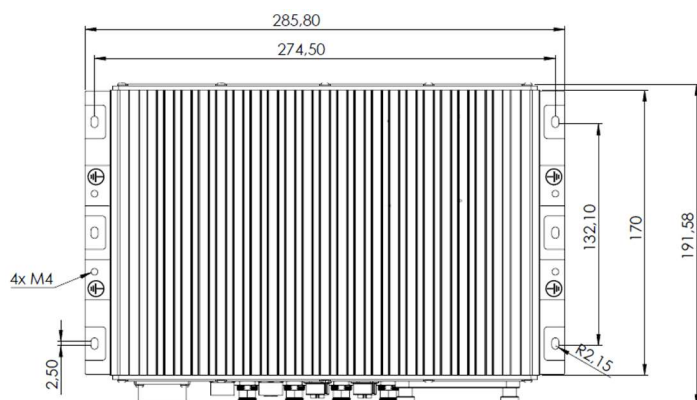
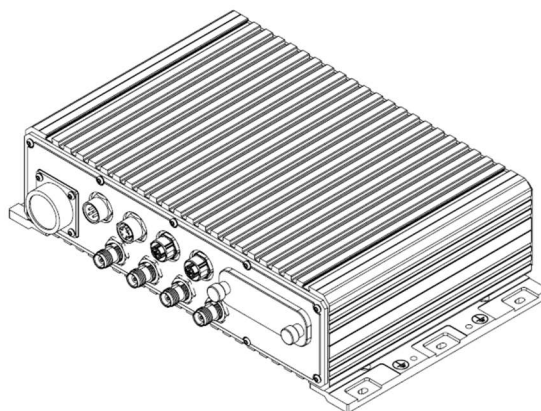
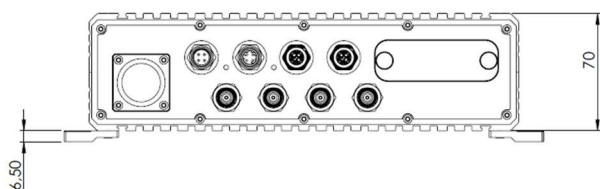
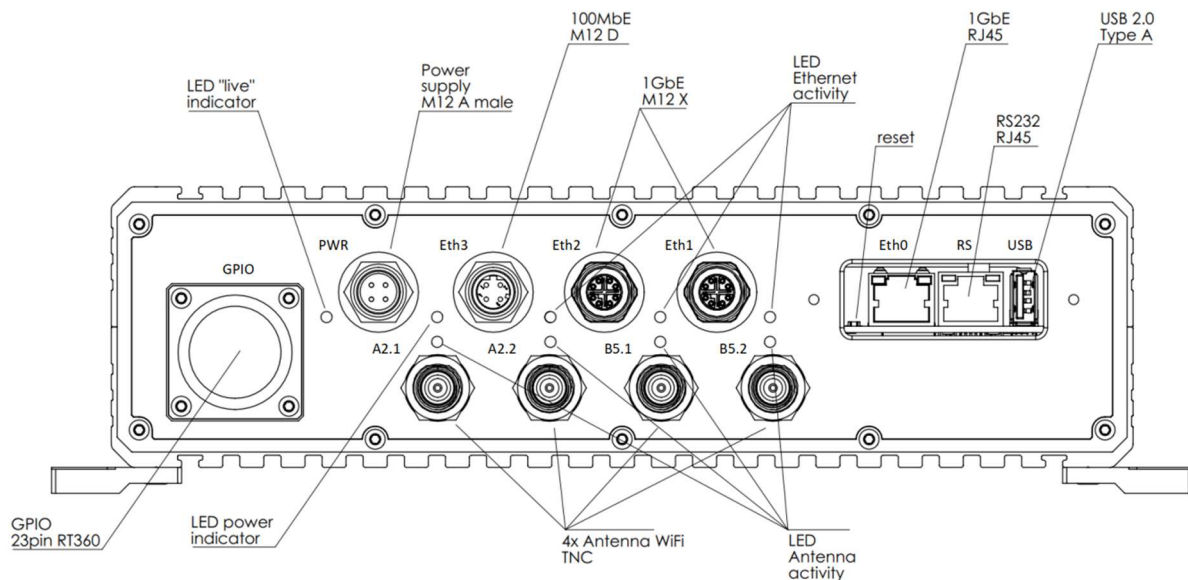


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| | |
|---|---|
| | 110 V DC (wide range 36 to 160 V DC) with 1.5 kV isolation, M12 A connector (M) (same for both Q2-CLI and Q2-AP) |
| | 4 x TNC (f) antenna connector |
| | 2 x GbE with M12 Code X (F) connector |
| | 1 x 100 MbE with M12 Code D (F) connector |
| | 1 x LED power indicator |
| | 1 x LED "live" indicator |
| | 4 x LED antenna activity indicators |
| | 3 x LED ethernet activity indicators |
| | (Optional) 1 x 23 pin circular connector RT360 - 4 individual inputs (24 V DC) 4 relay outputs NO/NC - all isolated from each other >500 V |
| Under aluminium cover (Service interfaces) | 1 x RS232 with RJ45 connector |
| | 1 x GbE with RJ45 connector |
| | 1 x USB with USB-A connector |
| | 1 x Reset button |
| ENVIRONMENT: | |
| Operating temperature range | -40°C to +70°C |
| Relative humidity | 0% to 95% |
| Airflow | Non specified when top of the box can use natural convection at ambient max. 48°C |
| | Other cases: 0.5 m/s |
| COMPLIANCE: (meets the following requirements and standards) | |
| | PN-EN 50155:2018-01 |
| | IEC/EN62368-1:2015-03 |
| | PN-EN 50121-1:2008 |
| | PN-EN IEC 61000-3-2:2019-04 |
| | PN-EN 61000-6-4:2008/A1:2012 |
| | PN-EN 55032:2015-09/A11:2020-07 |
| | PN-EN 55024:2011/A1:2015-08 |
| | PN-EN 45545-1:2013-07 |
| | PN-EN 45545-2+A1:2015-12 |
| | PN-ETSI EN 300 328 V2.1.1:2017-05 |
| | PN-ETSI EN 301 893 V2.1.1:2017-11 |
| | PN-ETSI EN 301 489-1 V1.9.2:2012 |
| | IEC 62439-3:2016 |
| | IP65 rating |
| CONSTRUCTION: | |
| Design | Fanless aluminium housing |
| Dimensions | 256 mm (W) x 170 mm (D) x 70 mm (H) |
| Weight | Approx. 3.7 kg |
| MTBF: | |
| | >230 000 hours (at 40°C) |

TOP VIEW:

PERSPECTIVE VIEW:

FRONT VIEW:

CONNECTOR DESCRIPTION :


| PRODUCT NAME | CATALOGUE NO. | DESCRIPTION / VERSION |
|--------------|---------------|-----------------------|
| Q2-CLI/Q2-AP | 30755 | - |

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