

- Passive Ethernet terminal access point (TAP)
- Guaranteed non-retroactivity down to the physical layer
- Monitors up to two 100 Mbit Ethernet network lines
- Power-over-Ethernet (Powered Device) capable
- -40 °C to +70 °C operating temperature



PASSIVE TERMINAL ACCESS POINT

The D650 is a passive Ethernet terminal access point (TAP) to monitor up to two 100 Mbit Ethernet network lines ensuring non-retroactivity.

The Ethernet TAP is capable of mirroring all network traffic on up to two 100 Mbit Ethernet interfaces. The network traffic is forwarded – without modification – to the monitor port. The monitor port offers a 1 Gbit Ethernet interface, providing enough bandwidth to aggregate two 100 Mbit interfaces without packet loss.

FLEXIBLE POWER SUPPLY

The D650 can be powered directly from the battery and supports nominal battery voltages from 24 V DC to 110 V DC. Alternatively, the device may be powered over Ethernet via the monitor port.

MADE FOR RAILWAY APPLICATIONS

The D650 is exclusively designed for harsh rolling stock environments and complies with the EN 50155 standard.

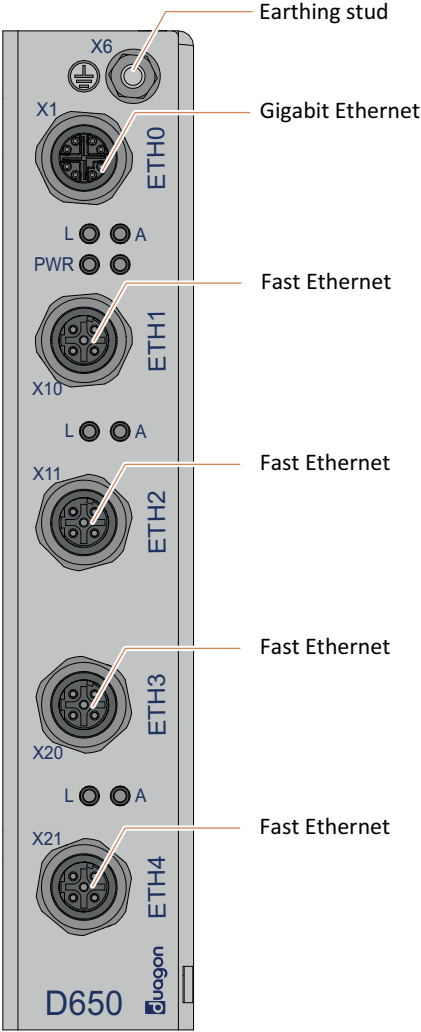


www.duagon.com/products/d650/

DATA SHEET



D650 | DIAGRAM





D650 | TECHNICAL DATA

INTERFACES

- Ethernet
 - 1 × 10/100/1000BASE-T, M12, X-coded, receptacle
 - 2 × 100BASE-TX, M12, D-coded, receptacle
 - 2 × 100BASE-TX, M12, D-coded, receptacle (optional)
- LED
 - Status: power status
 - Ethernet: activity, link
- Power
 - 1 × power in, Phoenix Contact MSTB, 3-pin, plug

ELECTRICAL SPECIFICATIONS

- Supply voltage
 - 24 V DC to 36 V DC nom. (EN 50155)
 - 48 V DC to 110 V DC nom. (EN 50155)
 - 48 V DC (PoE)
- Power consumption: 5 W max.

MECHANICAL SPECIFICATIONS

- Dimensions: approx. (W) 30 mm, (D) 116.5 mm, (H) 165 mm
- Weight: 440 g (may vary according to ordering options)

PRODUCT COMPLIANCE: RAIL - ROLLING STOCK

- Compliance level: This product is prepared for use in EN 50155 systems. Some parameters are system-dependent and are specified on system level.
- Rapid temperature variations: EN 50155:2021, class H1, no requirements
- Storage temperature: -40 °C (EN 50155:2021) to +85 °C (EN 60068-2-2, Bb)
- Altitude: +1800 m max. (EN 50125-1:2014, class AX)
- Shock: 30 ms @ 50 m/s² (EN 61373:2010/AC:2017-09, vehicle body, cat. 1, class B)
- Vibration: 10 min @ 1.01 m/s² (functional) and 5 h @ 5.72 m/s² (long-life) (EN 61373:2010/AC:2017-09, vehicle body, cat. 1, class B)
- Protective coatings: EN 50155:2021, class PC2 (Any PCB protected on both sides)
- Useful life: 20 years (EN 50155:2021, class L4)

D650 | ORDERING INFORMATION

ORDERING OPTIONS

1

Number of Lines

- S: Single line
- D: Dual lines

2

Power Supply

- LV: 24 V to 36 V DC
- HV: 48 V to 110 V DC
- PoE: Power over Ethernet (PD)

D650 - X - X (final order code)

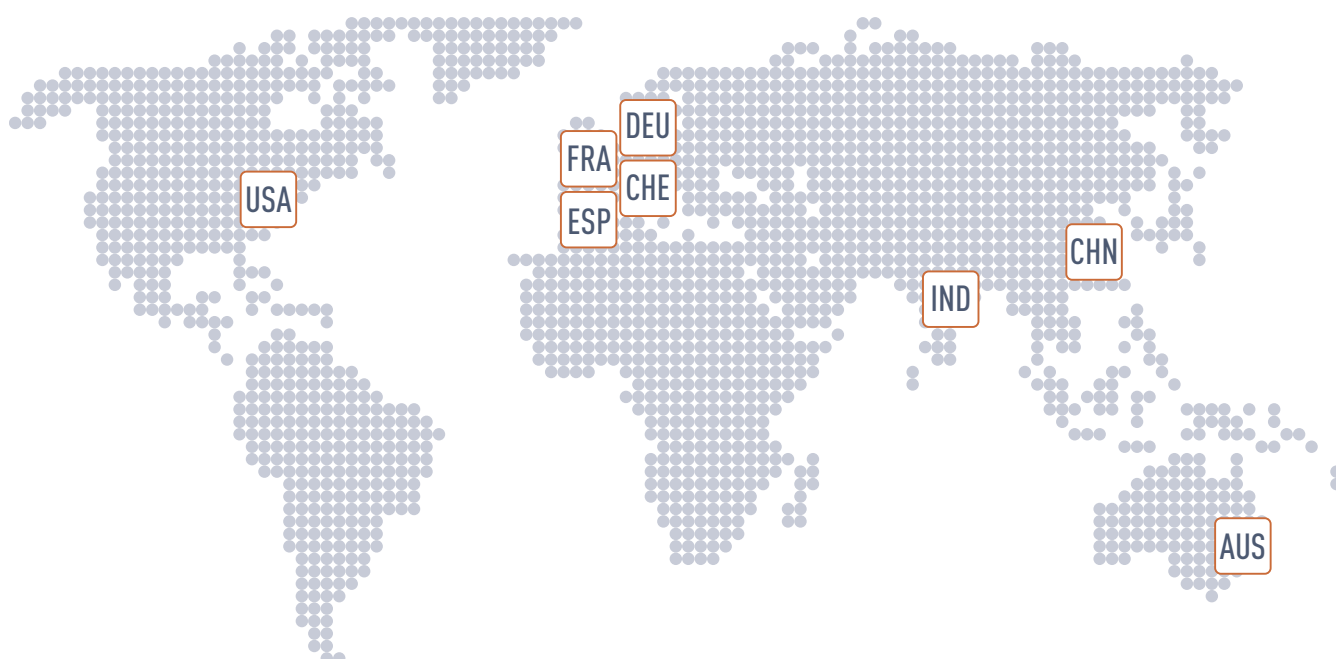
Group	Option	Note
2	PoE	PoE is available on ETH0
2	PoE	Contact duagon for availability and lead times



LEADING THE EMBEDDED FUTURE

duagon WORLDWIDE

duagon has a global presence with support and sales representatives across eight countries. With three decentralized engineering and production sites, our customers take advantage of the added competence and flexibility.



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