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DLD® Wide Range II

Fully Automated Remote Download of Tachograph Data via GSM 2G/3G

The new DLD® Wide Range II enables customer together with TIS-Web® RTM to do the Remote Download from DTCO and Stoneridge tachograph data via GSM 2G/3G communication. Data can be downloaded flexibly anytime from anywhere (all European countries) automatically without driver intervention.

DLD® Wide Range II is transferring the data via a mobile network (2G/3G) to a VDO server that you can access securely over the internet. DLD® Wide Range II is based on the powerful and flexible Linux platform and already equipped with mobile communication (SIM). Together with TIS-Web® RTM it offers in addition to the remote download also the possibility to record GPS positions (for this a GPS antenna as accessory is required). In the same, DLD® Wide Range II has two additional CAN interfaces on board and several digital I/Os. Thus it is prepared for future implementations of more interesting telematics features.

The existing accessories from DLD® Short Range II like the main harness, front interface cables, GPS antenna could be used directly for DLD® Wide Range II. In addition to this the optional DLD® Wide Range II I/O Harness will allow to connect one analogue, three digital inputs and the third CAN if implemented in future applications.

DLD® Wide Range II Benefits

- Based on a powerful and flexible Linux Platform with 512 MB storage
- Includes GSM and an internal GPS module (with external GPS antenna)
- Additional CAN, digital inputs and other interfaces (with optional harness)
- Integrated SIM card, communications onboard
- Main Harness and accessories compatible with DLD® Short Range II
- Prepared for future Telematics applications

DLD[®] Wide Range II

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Technical Specifications

- Power supply 9 – 32 V
- Overvoltage protection Automotive Standard for Vehicle Protection
- Reverse battery protection Yes
- Power consumption "Active" mode For 12V system: maximum 600 mA. Peak 1450mA (< 4.6ms).
For 24 V system : maximum 290 mA. Peak 720mA (< 4.6ms).
- Power consumption "Sleep" mode without GSM 6.5/3 mA at 12/24 V
with GSM: 26/13 mA at 12/24 V
- Backup battery No

Host controller ARM 11 Family

- GNSS** GPS, Glonass, Galileo ready
- Channels 32 tracking channels
 - GPS Update speed 1 Hz
 - GPS-precision < 10m (open sky)
 - GPS-Hot Start 8s (typically / open sky)
 - GPS-Warm Start 40s (typically / open sky)
 - GPS-Cold Start 70s (typically / open sky)

- Memory**
- Non-Volatile Memory 512 MByte NANO Flash
 - Volatile Memory 128 MByte SDRAM

- RS232 Ports**
- Baud rate 9 600 - 115 200 bps
 - Provisions Offers provision for implementation of ISO14229 -1_2001

- GSM**
- Generation 2G/3G
 - GSM Quad-Band 850 / 900 / 1800 / 1900 MHz
 - 2G/3G Class 10

CAN

- Interfaces 2
- Interface certificate ISO 11898
- Transfer rate up to 1MBit/s
- Format Base format (11 bits for identifier) and extended frame (29 bits identifier)
- CAN1 DTCCO CAN
- CAN2 FMS CAN (Vehicle CAN)

K-line

- Interface certificate Complies with ISO 9141 and ISO 14230

USB High Speed Interface

- Type USB 2.0
- Transfer rate 480MBit/s

Environment

- Temperature Storage temperature range of -25°C...+85°C
Ambient operating temperature range of -25°C...+70°C
- Protection ingression IP42 according to IEC 6052

Dimensions 116 x 128 x 37,1 mm
(Width x Height x Thickness)

Connectors

- Connector I (main) Molex 22 pins
- Connector II Molex 8 pins
- Connector for external GNSS antenna Fakra Code C blue
- USB connector Mini USB receptacle type AB

DIP switch

- Role DIP switch for 2 CAN interfaces (Termination Node or Not)