OMNICOMM ON-BOARD TERMINALS

QUALITY, RELIABILITY, PRECISION

// On-board terminals are a critical component of effective fleet management. They collect data from various sensors and the vehicle's on-board computer and send it to the fleet management system for processing. The reports generated from this data provide valuable information for operational management.

OMNICOMM's range of on-board terminals delivers consistently high performance, even in extreme conditions. Vibration, extreme fluctuations in temperature, humidity, etc., are no match for our terminals which support GPS & GLONASS navigation systems for maximum precision. Features include autonomous operation, parameter control for auxiliary equipment and compatibility with most third-party monitoring systems, sensors and peripherals. And we've added video surveillance capabilities to the line with the new, fully featured **OMNICOMM OKO.**

OMNICOMM TERMINALS:

Covering every usage scenario

All OMNICOMM's terminals are built using high-quality components and carry a full three-year warranty. Whatever your usage scenario, there's an OMNICOMM terminal for you with a wide range of features and benefits:

- Support for GLONASS and GPS navigation systems for highly precise positioning.
- Fully tested for consistently reliable operation even in adverse conditions – wide operating temperature range and resistant to external factors (moisture, dirt, vibration).
- Autonomous operation with a built-in battery to collect data from the GPS/GLONASS antennas even when the terminal is disconnected from the on-board power supply[1] .
- Can be connected to OMNICOMM Online (OMNICOMM's Feet Management System) as well as other fleet management systems[2]. Data can be sent to two independent fleet management systems simultaneously[3].

- OMNICOMM's professional-grade terminals allow users to define a range of events during terminal setup, and add notifications which can be changed remotely at a later date. When an event occurs, the terminal automatically sends a notification to OMNICOMM Online.

- The ability to specify geofences at setup to define zones where vehicles are/aren't authorized to operate.

- 150 000+ events can be stored in the memory to control the vehicle even without GSM coverage.

- Support for a diverse range of sensors and sensor types to read data from fuel-level sensors and other external equipment including digital or analog sensors, tyre pressure indicators, temperature & weight sensors, RFID identification (1-wire protocol), CAN-bus (J1939, J1708), still photo cameras, indicator displays, passenger flow count sensors, tachographs, CAN-log, etc.

- Remote firmware updates add new features to installed equipment without having to take the vehicle to a dedicated service station.

- Detects attempts by jamming equipment to jam navigation and GSM signals.

- Built-in accelerometer to collect data on driving behaviours, facilitating lean driving practices.

- Tampering detection.

1. *excl. OMNICOMM Smart*
2. *excl. OMNICOMM Smart*
3. *excl. OMNICOMM Smart*

OMNICOMM PROFI

Terminal version with 3G support is also available

OMNICOMM's most feature-packed terminal is built for medium and heavy trucks operating in complex projects and in highly demanding situations. It has an IP54 protection rating and comes in two versions, one with WiFi for areas without GSM coverage.

The OMNICOMM Profi's special fuel servicing truck mode controls the tank of both truck and tank-cistern, giving customers visibility into how the fuel servicing truck uses its own fuel and dispenses it to others. This ensures that fleet operators always have accurate information on how many vehicles can be fueled at any time.

OMNICOMM PROFI

Other features include:

- Detects attempts by jamming equipment to jam navigation and GSM signals[1].
- Highly resistant to vandalism: the sensor is tamper-proof, the robust cover protects inputs and outputs and the framing is constructed from impact-resistant aluminium alloy.
- Resistance to low temperatures – a SIM card pre-heating feature turns on automatically when required.
- Dedicated input for engine RPMs and built-in accelerometer to collect data on driving behaviors.
- Support for remote control of discrete outputs and programmable logic, enabling remote management of external devices. Users can specify and set-up parameters for sounds or flashing lights when a certain event occurs (the driver is speeding, for example, or has forgotten his seatbelt).
- Two-way voice communication (requires connection of voice communication kit).
- Support for fuel flow meters for use in fuel delivery trucks and at gas stations.
- Connections for up to six fuel level sensors.
- Autonomous operation with a built-in battery to collect data from the GPS/GLONASS antennas even when the terminal is disconnected from the on-board power supply.
- Tamper-detection sensor.
- Support for simultaneous SIM card and SIM chip operation.
- Power supply for external sensors.
- Ingress Protection rating of IP54.

1. *Except OMNICOMM Profi 3G*

NEW!

OMNICOMM OKO

The OMNICOMM OKO offers all the features and benefits of the OMNICOMM Profi plus support for up to four video surveillance cameras, making it additionally suitable for the passenger transportation industry and freight transportation.

OMNICOMM OKO

Other features include:

- Panoramic video surveillance with support for up to four IP-cameras.
- Constant video recording – when the memory is full, recording continues, replacing the oldest recording.
- Video is stored on removable drives (SD cards) and transferred to OMNICOMM Online or other fleet management systems.
- Video fragments of user-defined events (harsh braking, for example, or the opening of a freezer compartment door), with parameters set by the user, are automatically sent to OMNICOMM Online and can be viewed as needed.
- 1280x720 video quality.
- Video recording duration ranging from 420 hours (when four cameras are connected and recording) to 1700 hours (when a single camera is connected and recording)[1].
- Additional data – coordinates, time, camera name, speed, driver ID, etc. – can be displayed over video when using an OMNICOMM camera. OMNICOMM offers our own cameras and has a list of recommended cameras.
- Ingress Protection rating of IP41.

1. *When two SD cards of 256GB each are used*

OMNICOMM OPTIM

The OMNICOMM Optim offers a rich set of features including two external antennae (for GPS/GLONASS and GSM) for extra reliability in areas with limited mobile coverage. It's designed for use in medium- and heavy-duty vehicles and has an IP52 protection rating.

Other features include:

- Detects attempts by jamming equipment to jam navigation signal.
- Connections for up to six fuel level sensors.
- Tamper-detection sensor.
- Unique support for two SIM cards for added convenience, choice and price efficiency. (SIM card and SIM chip version available on request).
- Dedicated input for engine RPMs and built-in accelerometer to collect data on driving behaviors.
- Support for remote control of discrete outputs and programmable logic, enabling remote management of external devices. Users can specify and set-up parameters for sounds or flashing lights when a certain event occurs (the driver is speeding, for example, or has forgotten his seatbelt).
- Autonomous operation with a built-in battery to collect data from the GPS/GLONASS antennas even when the terminal is disconnected from the on-board power supply.
- Ingress Protection rating of IP52.

OMNICOMM OPTIM

OMNICOMM LIGHT

The OMNICOMM Light is designed for light commercial vehicles and gensets in the most common fleet monitoring scenarios. The antenna is integrated into the terminal package, making the compact stylish unit suitable for open mounting on the windshield or control panel – and easy installation in the vehicle's cabin. It reads data from the fuel level sensor – two can be connected – and other external equipment including digital or analog sensors, temperature, weight and CAN-bus (J1939, J1708)

OMNICOMM LIGHT

Other features include:

- Built-in GSM and GPS/GLONASS antennas (GLONASS and GPS navigation systems ensure highly precise positioning).
- Up to 150 000 events can be stored in the memory to control the vehicle even without GSM coverage.
- Dedicated input for engine RPMs and built-in accelerometer to collect data on driving behaviors.
- Support for remote control of discrete outputs and programmable logic, enabling remote management of external devices. Users can specify and set-up parameters for sounds or flashing lights when a certain event occurs (the driver is speeding, for example, or has forgotten his seatbelt).
- Autonomous operation with a built-in battery that collects data from the GPS/GLONASS antennas even when the terminal is disconnected from the on-board power supply.
- Tamper-detection sensor.
- Support for a single SIM card (Nano SIM).
- Ingress Protection rating of IP52.

OMNICOMM SMART

The OMNICOMM Smart is designed for light commercial vehicles running basic fleet monitoring scenarios. The antenna is integrated into the terminal package, making the compact stylish unit suitable for open mounting on the windshield or control panel – and easy installation in the vehicle's cabin. It sends data from a single fuel-level sensor exclusively to OMNICOMM Online.

OMNICOMM SMART

Other features include:

- Built-in GSM and GPS/GLONASS antennas (GLONASS and GPS navigation systems ensure highly precise positioning).
- Powered from the on-board power supply.
- Reads data from the fuel-level sensor and other external equipment including digital or analog sensors, temperature, weight and CAN-bus (J1939).
- Dedicated input for engine RPMs and built-in accelerometer to collect data on driving behaviors.
- Tamper-detection sensor.
- Support for a single SIM card (Nano SIM).
- Ingress Protection rating of IP52.

OMNICOMM OFFERS COMPLETE MODULAR SOLUTION FOR DIGITAL FLEET CONTROL

3 Cloud-based fleet management platform, IOS & Android apps

2 GPS/GLONASS onboard terminal

1 Industry most reliable fuel-level sensor

TECHNICAL SPECIFICATIONS

	OMNICOMM PROFI (PROFI 3G)	OMNICOMM PROFI WiFi	OMNICOMM OKO	OMNICOMM OPTIM	OMNICOMM LIGHT	OMNICOMM SMART
GPS						
Location Technology	GPS/GLONASS, 32 channels	GPS/ GLONASS, 32 channels	GPS/ GLONASS, 32 channels	GPS/ GLONASS, 32 channels	GPS/ GLONASS, 32 channels	GPS/ GLONASS, 32 channels
Tracking Sensitivity	-167 dBm	-167 dBm	-167 dBm	-167 dBm	-167 dBm	-167 dBm
Acquisition Sensitivity	-149 dBm	-149 dBm	-149 dBm	-149 dBm	-149 dBm	-149 dBm
Cold Start TTFF	28s	28s	28s	28s	28s	28s
Hot Start TTFF	1s	1s	1s	1s	1s	1s
Location Accuracy	3m	3m	3m	3m	3m	3m
Cellular and wireless						
Data Support	GSM / GPRS / SMS (UMTS)	GSM / GPRS / SMS	GSM / GPRS / SMS	GSM / GPRS / SMS	GSM / GPRS / SMS	GSM / GPRS / SMS
Quad-Band	850 / 900 / 1800 / 1900 MHz (GSM 900 / 1800 UMTS 900 / 2100 MHz)	850 / 900 / 1800 / 1900 MHz	850 / 900 / 1800 / 1900 MHz	850 / 900 / 1800 / 1900 MHz	850 / 900 / 1800 / 1900 MHz	850 / 900 / 1800 / 1900 MHz
SIM capability	1 SIM card + 1 SIM chip*	1 SIM card + 1 SIM chip*	1 SIM card + 1 SIM chip*	2 SIM cards or 1 SIM card + 1 SIM chip*	1 SIM card or 1 SIM chip*	1 SIM card or 1 SIM chip*
Possibility of installing SIM-chip	+	+	+	+	+	+
Wi-Fi	-	+	-	-	-	-
Comprehensive I/O						
CAN interface (J1939, FMS)	+	+	+	+	+	+
RS-485 interface	2 (1)	2	2	2	1	1
RS-232 interface	1	1	1	1	0	0
USB interface	+	+	+	+	+	+
1-wire interface	+	+	+	+	-	-
Voice communication	+	+	+	+	-	-
Electrical						
Operating Voltage	8…65	8…65	10…36	8…65	8…30	8…30
External sensor power supply	+	+	+	-	-	-
Backup battery capacity, MA-h	1400, Li-pol	1400, Li-pol	1400, Li-pol	1400, Li-pol	650, Li-pol	-

* *available upon request.*

	OMNICOMM PROFI (PROFI 3G)	OMNICOMM PROFI WiFi	OMNICOMM OKO	OMNICOMM OPTIM	OMNICOMM LIGHT	OMNICOMM SMART
Environmental						
Operating temperature range, C	-40...+85 ºC	-40...+85 ºC	-40...+85 ºC	-40...+85 ºC	-40...+85 ºC	-40...+85 ºC
Ingress Protection Rating	IP54	IP54	IP41	IP52***	IP52	IP52
Physical						
Dimensions	100 x 137 x 38 mm	100 x 137 x 38 mm	225 x 180 x 48 mm	101 x 90 x 32 mm	67 x 67 x 22 mm	67 x 67 x 22 mm
Maximum weight, kg	0,28	0,28	1,17	0,15	0,15	0,15
Antenna	External, SMA socket	External, SMA socket	External, SMA socket	External, SMA socket	Internal	Internal
Inputs and outputs						
Ignition key input	+	+	+	+	+	+
Panic button input	+	+	+	+	+*	+*
Separated RPM input	+	+	+	+	+*	+*
Dispatcher button input (GSM)	+	+	+	+	-	-
Number of universal inputs	6	6	6	4	2	1
Number of discreet outputs	2	2	2	2	1	0
Data collection and transmission						
Period of data collection, seconds	15...240	15...240	15...240	15...240	15...240	15...240
The volume of non-volatile memory, events	150 000	150 000	150 000	150 000	150 000	150 000
SD-card for photos and archives	-	-	+	+	-	-
Key Features						
Video management	-	-	+	-	-	-
Detection of active GSM/ GPS signal jamming	+ (-)	+	-	+*	-	-

* *GPS only*

	OMNICOMM PROFI (PROFI 3G)	OMNICOMM PROFI WiFi	OMNICOMM OKO	OMNICOMM OPTIM	OMNICOMM LIGHT	OMNICOMM SMART
Built-in accelerometer	+	+	+	+	+	+
Connector cover	+	+	-	-	-	-
Intrusion tamper sensor	+	+	+	+	+	+
To connect fuel level sensors	6	6	6	6	2	1
Number of servers to transfer data	2	2	2	2	2	1
Remote control through SMS	+	+	+	+	+	+
Remote control through GPRS	+	+	+	+	+	+
SIM-card heating	+	+	+	-	-	-
Driver ID	+	+	+	+	-	-
Photo events recording	+	+	+	+	-	-
Passenger traffic sensor support	+	+	+	+	+	-
Outputting information through external indicator	+	+	+	+	-	-
SMS notification	+	+	+	+	+	+

** possible connection through universal input*

*** loudspeaker amplifier is to be used/headset*

**** upon using protection plate and sealing*

OMNICOMM technologies optimize fleet performance to transform your business.

Want to see how OMNICOMM technologies can work for you?

SCHEDULE A DEMO WITH ONE OF OUR LOCAL PARTNERS TODAY.

OMNICOMM
FUELLING YOUR BUSINESS

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