

Off-Highway Diagnostics, Telematics & Uptime

Security Solutions combines TEXA OFF-HIGHWAY diagnostics and connected equipment technology to help fleets find faults faster, plan repairs intelligently and keep machinery productive.



COVERAGE SNAPSHOT TEXA IDC6 OHW supports agriculture, construction, crane and material-handling equipment, plus industrial engines; eTRUCK adds connected remote diagnosis on supported assets.

4 COVERAGE GROUPS Agriculture, construction, crane/lift and industrial engines	MULTI-SYSTEM Engine, hydraulics, transmission, emissions, controls and more	BI-DIRECTIONAL Command components, run tests and verify repairs
SERVICE FUNCTIONS Regens, calibrations, coding, resets and adaptations	GUIDED INFORMATION Wiring, procedures, technical data and solved problems	CONNECTED TELEMATICS Remote equipment health, diagnosis and service coordination

For equipment owners, contractors, municipalities, service departments and mobile technicians who need dealer-level depth across mixed off-road fleets.

COMPLETE OFF-HIGHWAY COVERAGE MAP

Agriculture & Industrial Engine Coverage

Manufacturer groups below follow TEXA USA's published fleet coverage. Specific models, systems and functions remain application-dependent and are expanded through software updates.

Agricultural Equipment

AGRICULTURAL TRAILER	BELARUS	BUHLER VERSATILE	CARRARO
CASE IH	CATERPILLAR	CHALLENGER	CLAAS
DEUTZ-FAHR	DIECI	ENERGREEN	FARESIN
FENDT	FRANZ KLEINE	GRIMME	HURLIMANN
JCB	JOHN DEERE	KAMAZ	KRONE
KUBOTA	LAMBORGHINI	LANDINI	LAVERDA
LINDNER	MACDON	MANITOU	MASSEY FERGUSON
MCCORMICK	MERLO	NEW HOLLAND	RENAULT AGRI
ROPA	SAME	STEYR	URSUS
VALPADANA	VALTRA		

Industrial Engines & Power Units

ALLISON	CATERPILLAR	CUMMINS	DETROIT
DEUTZ	EBERSPACHER	FPT / IVECO MOTORS	HINO
ISUZU	IVECO	JOHN DEERE	KOHLER
KUBOTA	MERCEDES-BENZ	MTU	MWM
PERKINS	SCANIA	SISU	SULLAIR
VM MOTORI	VOLVO PENTA	YANMAR	

Representative Equipment Applications

TRACTORS	COMBINES & HARVESTERS	SPRAYERS	BALERS
TELEHANDLERS	SPECIALTY HARVESTERS	AG TRAILERS	INDUSTRIAL POWER UNITS
IRRIGATION / AUXILIARY ENGINES	FORESTRY MACHINERY	MATERIAL HANDLERS	MIXED MUNICIPAL ASSETS

Construction & Specialized Equipment Coverage

TEXA OFF-HIGHWAY reaches across earthmoving, roadbuilding, mining, forestry, lifting and material-handling equipment from major global manufacturers.

Construction, Mining, Forestry & Earthmoving

AEBI	ASTRA	ATLAS COPCO	BELL
BOBCAT	BOMAG	CARRARO	CASE CE
CATERPILLAR	DOOSAN	FIAT-KOBELCO	GDELS MOWAG
HAMM	HITACHI	HYUNDAI CE	JCB
JOHN DEERE CE	KASSBOHRER	KOBELCO	KOMATSU
KRAMER	KUBOTA	LIEBHERR	LINK-BELT
MERLO	NEW HOLLAND	O&K	OSHKOSH
PERLINI	PETTIBONE	PRINOTH	RANDON
SANDVIK	SUNWARD	TAKEUCHI	TEREX
TEREX TRUCKS	TIGERCAT	VERMEER	VOLVO CE
WACKER NEUSON	WEBASTO	XTREME	YANMAR

Crane, Lift & Container Equipment

COMETTO	CVS FERRARI	FANTUZZI	GENIE
GROVE	HYSTER	HYUNDAI	JLG
KALMAR	LIEBHERR	LINDE	MANITOU
OTO	SKYJAK	TADANO	TERBERG
TEREX / DEMAG			

What TEXA Can Diagnose Off Road

IDC6 organizes coverage by manufacturer, machine, system and ECU—helping technicians diagnose the complete asset instead of stopping at the engine.

SYSTEM AREA	REPRESENTATIVE COVERAGE
Engine & Fuel	Engine management, injection, fuel supply, turbocharging, cooling and engine-protection controls.
Hydraulics	Electronic hydraulic controls, pumps, valves, pressures, lift functions and rear hydraulics where supported.
Transmission & Drivetrain	Powershift, hydrostatic and automated transmissions; clutch, axle, differential and drivetrain controls.
Emissions & Aftertreatment	DPF, SCR/DEF, EGR, dosing, sensors and supported stationary or forced regeneration procedures.
Chassis & Mobility	Steering, braking, suspension, travel, traction and stability systems on compatible machines.
Implements & Attachments	PTO, hitch, boom, implement, body and attachment control systems where the application supports access.
Cab & Operator Systems	Instrumentation, climate/HVAC, lighting, comfort, safety and networked cab electronics.
Telematics & Advanced Controls	Telematics, GPS control and selected autonomous-driving systems on modern agricultural and construction equipment.
Industrial Power Units	Dedicated engine coverage for stationary, auxiliary and equipment-mounted industrial applications.

Everyday Off-Highway Diagnostic Workflow

- **Identify the machine** — Select make, model, engine and equipment configuration or use supported automatic identification.
- **Scan the asset** — Run a complete control-unit scan and view module topology where available.
- **Find the fault** — Read and clear DTCs, review live parameters, freeze-frame information and error help.
- **Test the system** — Command actuators, compare values and run manufacturer-specific bi-directional procedures.
- **Complete the repair** — Perform supported regens, coding, calibrations, adaptations and maintenance resets.
- **Document the result** — Save diagnostic reports for work orders, approvals, maintenance history and fleet records.

OFF-HIGHWAY DIAGNOSTIC DEPTH

Core, Advanced & Guided Capabilities

TEXA combines multi-brand machine diagnostics, advanced service operations and technical information in one IDC6 workflow for the field, fleet shop or service department.

CAPABILITY	WHAT IT ENABLES
Complete health checks	Automatic identification where supported, ECU scans, DTC reading/clearing, topology views and adaptive reports.
Live data & dashboards	View, graph and compare engineering parameters with visual dashboards that clarify system behavior.
Bi-directional testing	Command pumps, solenoids, injectors, valves, fans and other supported components to prove the fault.
Engine testing	Cylinder cut-off, compression and fuel-system tests, injector functions and other application-specific procedures.
Hydraulic diagnostics	Run supported hydraulic activations and functional tests, including rear hydraulic and lifting operations.
Emissions service	Perform supported DPF regenerations, resets, dosing tests and aftertreatment-related adjustments.
Coding & calibration	Calibrate sensors and actuators; perform supported coding, adaptations, service resets and manufacturer settings.
Remote diagnosis	eTRUCK can connect supported agricultural and construction assets to a workshop for remote monitoring, diagnosis and selected actions.
Interactive guidance	Use wiring diagrams, schematics, system explanations, component locations and guided troubleshooting.
Repair information	Access technical sheets, procedures, specifications, bulletins, solved problems and code-linked information.
AI-assisted search	AI Global Search and Intelligent Diagnosis use TEXA-certified content to speed information retrieval and fault finding.
Reporting & history	Create diagnostic reports that support estimates, repair verification, fleet records and maintenance history.
Continuous updates	TEXPACK subscription updates expand supported applications, systems, functions and technical information.

UPTIME IMPACT One platform can cover engines, hydraulics, transmissions, emissions and machine controls—reducing tool changes and shortening the path from fault to productive equipment.

TEXA eTRUCK: Connected Equipment Uptime

TEXA states that eTRUCK can be used on supported trucks, agricultural vehicles and construction equipment—connecting the machine, equipment owner and service operation before a fault becomes a longer shutdown.

Connected Capabilities

CONNECTED CAPABILITY	UPTIME VALUE
Remote equipment status	Monitor supported asset condition and maintenance status without waiting for the machine to return to the shop.
Remote diagnosis	Review faults and available vehicle data remotely to decide whether the machine can keep working or needs service.
Supported remote actions	The workshop can perform covered electronic-system interventions and adjustments remotely, depending on application.
Predictive maintenance	Manage ordinary and extraordinary maintenance in advance and schedule work around production demands.
Shared service planning	Coordinate maintenance appointments among the service provider, operator and fleet manager.
Equipment portfolio	Maintain connected asset and customer profiles in a single service environment.
Real-time information	Use available equipment data to improve triage, technician preparation and owner communication.
Off-highway reach	Connected service can extend to supported agriculture and construction equipment, subject to current TEXA coverage.

UPTIME ADVANTAGE Remote visibility helps Security Solutions determine what failed, how urgent it is and what the technician may need before equipment is transported or service is dispatched.

A Connected Equipment Uptime Workflow

Security Solutions positions TEXA telematics as a practical operating process for contractors and equipment fleets: monitor, detect, triage, plan and repair with shared information.

Connected Service Sequence

STAGE	ACTION & OPERATING VALUE
1. Monitor	Maintain visibility into supported equipment condition, maintenance status and connected asset activity.
2. Detect	Identify faults, service deadlines or abnormal operating conditions before they create a larger disruption.
3. Triage remotely	Review available diagnostic information and decide whether remote action, field service or shop repair is appropriate.
4. Prepare service	Plan the technician, adapters, tooling, parts, transportation and downtime window before work begins.
5. Repair and verify	Use IDC6 to diagnose the machine, complete supported functions and document the verified result.

For Equipment Owners, Fleets & Service Operations

- **Asset uptime** — Move from reactive breakdown response toward planned maintenance and better-prepared repair events.
- **Remote support** — Connect covered machinery with a qualified service operation when the asset is far from the shop.
- **Mixed-equipment visibility** — Support agriculture, construction and industrial assets through a common TEXA ecosystem.
- **API and SDK potential** — TEXA promotes remote-diagnostics APIs, eTRUCK SDK capabilities and customized telematics/reporting integrations.

In-shop execution — Move from remote triage to full IDC6 scans, guided diagnostics, active tests, coding, resets and reporting.

RUGGED OFF-HIGHWAY CONNECTION

TXT MULTIHUB 2 & Rugged Tablet Options

TEXA pairs IDC6 OHW software with a rugged, multi-protocol interface and professional display options designed for field service, fleet shops and demanding equipment environments.

TXT MULTIHUB 2 Off-Highway Highlights

- **Multi-environment capability** — Supports TEXA OFF-HIGHWAY plus CAR, TRUCK, BIKE/powersports and MARINE software environments.
- **Modern connectivity** — Wi-Fi, Ethernet, USB and Bluetooth support standard, DoIP, Pass-Thru and conventional diagnostic workflows.
- **Protocol breadth** — RP1210, J1939, J1708, CAN/CAN FD, DoIP, SAE J2534, J1850, K/L-line and other supported protocols.
- **Rugged construction** — IP53 protection with caps closed, reinforced anti-shock corners and MIL-STD 810G transit-drop compliance.
- **Built-in display** — Shows communication mode, operating status and machine battery voltage during diagnostic operations.
- **Application adapters** — Manufacturer-specific cables and adapters connect the interface across varied off-highway equipment.

Professional Off-Highway Platform Choices

PLATFORM	BEST FIT	KEY POINTS
AXONE NEMO LIGHT OHW	Entry point for off-highway diagnostics	10.1-inch rugged tablet package with IDC6 OHW and TXT MULTIHUB 2; verify included coverage and adapters.
AXONE NEMO PLUS OHW	Professional field and fleet service	11.6-inch Windows 11 IoT tablet, 16 GB DDR5, 250 GB SSD and rugged magnesium construction.
AXONE VOICE OHW	Maximum capability and expansion	13.3-inch high-resolution rugged display, Intel i5 platform, 16 GB RAM and multi-environment expansion.
WINDOWS PC + VCI	Shops using existing computers	TXT MULTIHUB 2 can communicate with a compatible Windows PC; confirm current IDC6 requirements.

Official TEXA Sources

TEXA Off-Highway Solutions | AXONE NEMO PLUS OHW | IDC6 Software | eTRUCK Remote Diagnostics | TXT MULTIHUB 2 | TEXA USA Fleet Coverage Catalog

texa.com/solutions/off-highway/ • texausa.com/products/plusohwmh2/ • texa.com/idc6-software/ • texausa.com/products/etruck/

Coverage, telematics data, remote functions, adapters and service procedures are application-specific and may depend on machine, market, software release, connectivity, subscription and configuration. Confirm current TEXA coverage for each intended asset before deployment.