Omnivex

DATA SHEET

AI-assisted SCADA & HMI platform for industrial and energy facilities

OMNIVEX COPILOT (AI)

AI engine	Anthropic Claude (Opus and Sonnet models)
Page generation	Complete SCADA pages from a text description
Design modes	Build from the library · Design new reusable components · Revise the current page
Attachments	Images, P&ID drawings, PDF, text and CSV files
Data analysis agent	Statistics, anomaly detection, Holt-Winters forecasting
Analysis output	XLSX and PDF reports

COMMUNICATION

Industrial	Modbus TCP Client, Modbus TCP Server, Modbus RTU Master, Modbus RTU over TCP, Siemens S7, Mitsubishi MC
Power systems	IEC 61850 (MMS, reports), IEC 60870-5-104
Building & IoT	BACnet/IP Client, MQTT Client, REST API (GET / POST)
Integration	OPC UA Server, Database, JavaScript (custom drivers), Internal tags
Serial ports	COM1–COM32, 300–921,600 baud

USERS & SECURITY

User authorization	Login with per-user menu permissions
Event log	Who did what, and when
Logbook	Shift notes with attachments
Secure access	HTTPS web server

ENGINEERING & PAGE DESIGN

Editors	Desktop editor (Windows) and web-based designer
Graphic objects	17 basic controls: labels, buttons, gauges, charts, tables, menus, maps…
Symbol library	250+ dynamic energy and process symbols in 14 groups, incl. single-line diagram parts
Image library	254 icons in 17 categories · SVG import with per-layer recolouring
Animations	Colour, bar (fill level), position, size, rotation
Editing tools	Undo / redo (50 steps), grouping, alignment, z-order, copy / paste
Ready-made pages	19 live demo pages and 42 sample pages, importable into any project
GIS maps	ArcGIS, Bing, Google, OpenStreetMap, OpenCycleMap, OpenSeaMap, UMP, WikiMapia
Web browser page	Embed web content and other applications in a page
Project import / export	Single .atechproject package, shared by desktop and web editors

ALARM MANAGEMENT

Alarm tags	All data types, configurable conditions and levels
Acknowledgement	With operator note
Alarm history	Yes
Subscriptions	Per user
Notifications	E-mail, SMS, audible alarm
Alarm colours	Per level

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TAGS & DATA

Tag structure	Channel → Frame → Tag, all data types
Tag functions	Scaling, logging, JavaScript scripts, SQL, auto reset
System tags	20 built-in system tags
Excel import / export	Tags, alarms, users
Recipe management	Yes
Data transfer	Between tags, devices and channels
Scripting	JavaScript with ready-made script functions

REPORTING & HISTORIAN

Historian	PostgreSQL time-series database
Log reports	Tag, alarm and event logs
Excel templates	12 built-in templates with placeholders, plus custom uploads
Report builder	Periods, averages, minimum / maximum, company logo
Report types	All data, statistical, graphic, table, database query
Automatic printing	Yes
Output formats	CSV, XLS / XLSX, PDF, PNG, print

VISUALIZATION & RUNTIME

Clients	Windows desktop client and any modern web browser
Charts	Line, spline, column, bar, area
Trend graphic	Line, bar, pie, area, box plot · PNG / PDF export
Gauges	Linear and radial gauges
Navigation	Multi-page, pop-ups, menu bar, page-to-report links
Operator tools	Dashboards, watch lists, trend tables, set-value dialog
Multiple monitors	Yes (desktop client)
Augmented reality	Yes
Languages & themes	English, Turkish, German, Russian, Chinese · 5 themes

SERVER & DEPLOYMENT

Web server	Built-in
Redundancy mode	Yes
Licensing	Offline license activation
Built-in help	Yes

SYSTEM REQUIREMENTS

Operating system	Windows, Linux
Processor	Minimum 2.4 GHz x64
Memory	Minimum 8 GB RAM · Recommended 16 GB or more
Disk	1 GB free space (plus historian data)
Database	PostgreSQL

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