

KNX SERVER

TECHNICAL DATASHEET

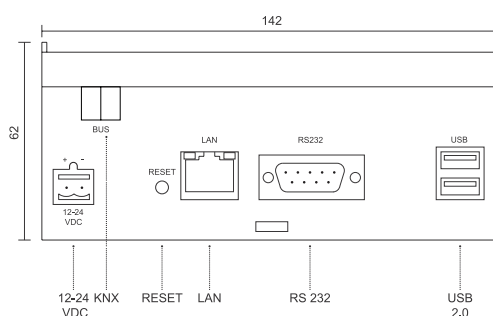
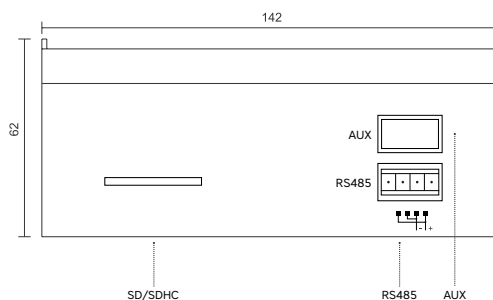
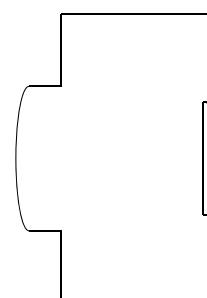


GENERAL OVERVIEW

Web-based visualisation system for home and building automation based on the world wide bus standard KNX. Allows the full control of the connected modules through PC/MAC, TouchPanels, smartphones, tablets and any kind of device disposed of a working browser, as well locally as also remotely through internet.

Customizable graphical interface with different themes, allowing to be adapted perfectly to the own expectations; optimized for the visualisation on different mobile and fixed devices. Direct import of the ETS project with simplified creation of the visualisation thanks to customizable import rules. Various extension possibilities thanks to functions like scenarios, time schedulings, logics, conditions, integrators, virtual objects, notifications on screen and via mail, as well as support for VoIP integrations.

Configuration possible directly on the server as well as offline via PDK (available for free); the configuration and creation of the visualisation requires no special skills / knowledge. Connection to systems of other manufacturers possible through various additional modules.



HARDWARE SPECIFICATIONS

Power Supply	12 ... 24 VDC Connector with screw connections Input with polarity protection
Power Consumption	3W (240mA at 12V)
Interfaces	KNX Standard KNX connector RS232 (1x) D-SUB 9 pin male USB 2.0 (2x) LAN (1x) RJ45 interface (10/100Mbps) RS485 (1x)
Storage Extension	SD / SDHC up to 32 GB
Reset	Hardware button on lower side of case
LED	Red (1x) Reset running / Error Green (1x) Operation LED
Protection Grade	IP 20 (following EN 60529)
Protection Class	II (following EN 60335-1)
Temp. Range (Usage)	+0°C ... +50°C
Temp. Range (stocking)	-10°C ... +70°C
Dimensions	142 x 98 x 62 mm DIN mounting, 8 modules
Material	Auto-extinguishing plastic case (AE)

VERSIONS AND ORDER CODES

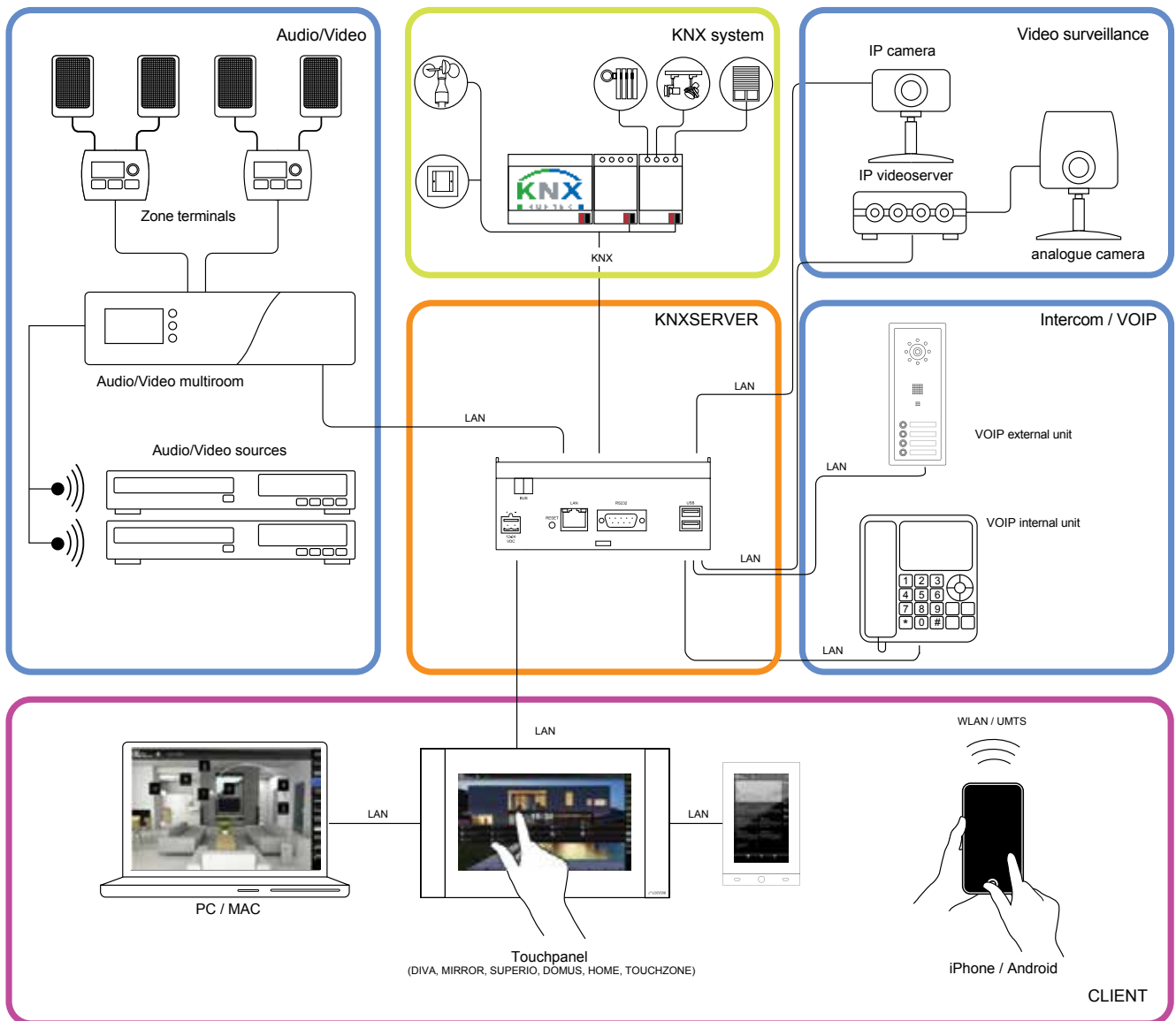
	MINI KNX-M-SERVER	HOME KNX-H-SERVER	ADVANCED KNX-A-SERVER	ENTERPRISE KNX-E-SERVER ¹
Number of KNX group addresses	150	750	1.500	unlimited ²
Number of scenes	30	100	100	unlimited ²
Number of time functions	30	100	100	unlimited ²
Number of logics	30	100	100	unlimited ²
Graphic logic editor	unlimited ³	unlimited ³	unlimited ³	unlimited
Energy counters	6	18	36	unlimited ²
IP cameras	not supported	unlimited ²	unlimited ²	unlimited ²
Number of screens	10 (no background view)	unlimited ²	unlimited ²	unlimited ²
INTERCOM	not supported	1 outdoor SIP intercom + 3 indoor intercom available		
Supported clients	iOS (APPLE): iPad, iPhone, ANDROID: all supported tablets and smartphones DIVUS: TOUCHZONE	iOS (APPLE): iPad, iPhone ANDROID: all supported tablets und smartphones DIVUS: TOUCHZONE, SUPERIO, MIRROR, DOMUS, DIVA, HOME		
Data collection	1 diagram with max. 5 data points, additional diagrams with UP-DATALOG-SW			

¹ only on request

² unlimited, If it allows the performance of the client device

³ tested with more than 150 logic nodes

WIRING DIAGRAMM



SOFTWARE SPECIFICATIONS

Standard technologies	KNX VoIP / SIP * RS-232 / RS485 / TCP
Gateway	Usable for KNX programming
User interface	Web / HTML5 (All operating systems) App support (iOS / Android)
Client amount	Unlimited (no additional license costs)
Parallel connections	Up to 20 (can be raised on request)
Controllable elements	Illumination Heating / Cooling Door and window contacts Irrigation / sprinkling Thermo-control Alarm systems Energy management Load control Weather stations IP cameras Intercom Burglar protection Multiroom
Browser compatibility	Google Chrome Apple Safari
Supported operating systems	Microsoft Windows Apple Mac OSX Linux Apple iOS Google Android

(*) Requires additional module

VISUALIZATION

Layout	Different graphical themes Layout adapts to display resolution Automatic resize for mobile devices Support of touch and multitouch systems
Performance	Commands are sent in real-time** Animations and graphical effects Support for HTML5 caching Optimized for iOS and Android
Navigation	Customizable graphical pages Navigation through rooms on different levels Navigation through functionalities Complex functions with pop-up controls Navigation menu customizable and always visible Single-click access for most important functions
Customization	Favourites Home Scenarios Time scheduling
Notifications	OnScreen notifications Mail Intercom
Further services	Weather preview RSS feeds Web browser Family board

(**) Performance may vary depending on the available network connection

SETUP AND COMMISSIONING

Configuration possibilities	Online Offline through PDK (available for free)
Configuration interface (IDE)	Search function Navigation menu with access to all functions Drag & drop Multi-Tab support for configuration of more than one object contemporarily
Setup and maintenance	Network Date / time Backup / restore of the project Language support (Italian / English / German / ...) Selection of graphical themes and layout adaptations Software update via browser
KNX visualisation	Project import from ETS Automatic creation of the functions Import rules connected to the KNX group addresses ETS gateway functionality also through internet
Rooms / pages	Arbitrary amount of pages and rooms Layout in grid and background view Background pictures freely customizable Free positioning of the functions
Extended functionality	Scenarios including wait commands Complex objects for uniting functions Logic functions Value comparisons and conditions Virtual objects Integrators Customizable functions thanks to scripting support
Timer / scheduling	daily schedulings Weekly and yearly schedulings Configuration interface for final user
History / datalog*	Periodic graphical representation (hours, days, months, years) Value comparison between different periods
Energy management	Support for KNX energy counter Support for KNX load controller Graphical display of consumption Visualisation of current load in real-time Value comparison and direct load control
Notifications	OnScreen notifications (3 level) Mails Intercom
VoIP - Intercom	Up to 20 SIP members Call groups Phone lines Automatical pop-up of incoming calls More than one video signal per external unit configurable Door opener Usable through SIP compatible smartphones
Connection to third-party software	URL SOAP M2M
Customization	Customizable graphical elements Different graphics selectable for the functions Integrated scripting routing for function extensions Import / export libraries for further usage
Users and security	Arbitrary amount of users Free distribution of user permissions Automatic login thanks to trusted IP configuration SSL protected remote access
Graphic logic editor	Extended function blocks Tested with more than 150 logic nodes

(*) Requires additional module

ADDITIONAL MODULES - UPGRADES KNX SERVER

ADDITIONAL MODULES & UPGRADES KNX SERVER	UP-MH	Upgrade DIVUS KNX M-SERVER to DIVUS KNX H-SERVER, all features of DIVUS KNX H-SERVER are available with this upgrade
	UP-HA	Upgrade DIVUS KNX H-SERVER to DIVUS KNX A-SERVER, all features of DIVUS KNX A-SERVER are available with this upgrade
	UP-MA	Upgrade DIVUS KNX M-SERVER to DIVUS KNX A-SERVER, all features of DIVUS KNX A-SERVER are available with this upgrade
	UP-DATALOG-SW	DATALOG: In DIVUS OPTIMA it is possible to record electrical loads graphically. The UP-DATALOG-SW extends this feature, so that a free configuration of graphs of arbitrary values, such as temperatures, brightness, status feedback, percentage values etc. is possible. Various types of graphical representation are available, whereby the respective graphical output may be optimally adapted to the respective purpose. This allows the user to gain the easiest and fast way an overview of the current situation.
	UP-NFC	This upgrade enables the integration of NFC tags into DIVUS OPTIMA. For practical use, a smartphone with NFC support and installed OPTIMA app is necessary. Once a NFC tag is programmed in OPTIMA, it can be linked to various actions. As soon as the OPTIMA app recognizes the configured NFC tag with the used smartphone, corresponding actions are initiated. Since NFC tags are available in many different forms, there are no limits to creativity. For example, you can place a NFC sticker where you normally deposit your Android smartphone after you come home. OPTIMA will then recognize the NFC tag and the associated actions will be performed, such as: lights turning on or the blinds moving into the desired positions. This way, different actions can be activated with the smartphone; 5 NFC tags included
	NFC-TAGS	10 pcs NFC tags to be used with UP-NFC
	UP-MODBUS-SW	With UP-MODBUS-SW, the DIVUS KNX SERVER can be connected via modbus protocol with other modbus devices. Thereby it is possible to establish the connection by cable or by modbus TCP/IP via the local network. In this way, third-party systems can be implemented via the modbus standard into the visualization.