

FUTRO A2xx-Series

The smart solution with more power than you expect!

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Take a look at the A2xx-series and find out how smart today's thin client computing can be - and it is more powerful than you would think it is!

The FUTRO A is ideally suited for Windows Terminal Server computing. The server executes the applications, the screen is displayed on the client. Your data is saved secure on the server and is therefore protected against loss. Also the operating system is stored secure on a flash memory and safe from unauthorized changes due to a write protected file system.

Scout Enterprise is the perfect administration tool and helps you to manage and update the client easily.

Space saving desing, no fan and rotating drives turn the FUTRO A2xx into the ideal thin client for your project and into a minimizer of Total Cost of Ownership.

Accessibility

- eLux NG or Windows CE 5.0 operating system with ICA / RDP protocol and terminal emulations
- TCP/IP network integration with DNS and DHCP support
- 10/100/1000 Mbit/s Ethernet LAN controller with PXE bootcode on board
- Explorer for direct internet connection
- Support of extended memory with MEMORYBIRD, external USB CD-ROM drive and a wide range of Fujitsu Siemens Computers' keyboards

Reliability

- Cost-optimized and trusted solution for displaying and running Windows applications
- Approved by Microsoft Terminal Server and Citrix MetaFrame XP 1.8 / Presentation Server 3.0 / 4.0
- Highest quality design and function stability

Manageability

- Scout Enterprise remote administration is available as option for Windows CE 5.0 and in combination with eLuxNG
- Simple network administration: programs and data are on the server
- Easy configuration, administration and system monitoring via optional tools
- Cost-effective remote administration via SNMP and DHCP standard protocols
- Manageability tool Scout Enterprise for embedded Linux solution

Security

- Optional external SmartCard reader
- SmartCard support by Certification Server (RDP & ICA)
- Access protection through Fujitsu Siemens Computers' SmartCard solution with SICRYPT and CardOS / Gem plus SmartCards
- Secure operating system embedded on flash memory
- Comfortable security support for SmartCard integration in connection with Citrix MetaFrame
- Secure data transaction via VPN available

Ergonomics

- Stress-free working and silent operation without any rotating fan and drives
- Very low power consumption, low heat dissipation



Operating system and software

Windows CE 5.0	eLux NG
Microsoft Operating System CE 5.0	eLux NG is a Linux based embedded operating system, specially developed for use in FUTRO to apply as thin clients in server-based environments.
Target group From Small Enterprises to Large Accounts with focus to Thin Client computing via ICA/RDP protocol and reduced use of local applications like emulation suite from Ericom	Target group From Small Enterprises to Large Accounts with use of Thin Client access via ICA/RDP and Browser. Wide range of additional local functions possible.
Local functions <ul style="list-style-type: none"> ■ ICA-Client ■ RDP-Client ■ Internet Explorer ■ Media Player ■ VNC Viewer ■ VPN Client ■ ThinPrint Client ■ Acrobat Viewer ■ Terminal emulation PowerTerm (ANSI, VT320/420, IBM 3270/5250) optional, additional license requested, optional orderable 	Local functions <ul style="list-style-type: none"> ■ ICA-Client V 9.0 ■ RDP-Client V 5.2 functionality ■ Browser Mozilla, Opera or Firefox available ■ Acrobat Reader ■ Tarantella-Client ■ ThinPrint Client ■ Terminal emulations for ANSI, 97801, VT320 ■ X.11 terminal application Local functions requiring further licenses Terminal Emulation PowerTerm (ANSI, VT320/420, IBM 3270 / 5250), additional license requested, optional orderable
Manageability with Scout Enterprise (license required, evaluation right for up to 3 seats): <ul style="list-style-type: none"> ■ FUTRO utility tool for CE 5.0 <ul style="list-style-type: none"> - Flash memory management - Embedded operating system update and system monitoring - Managing devices by location, group or user 	Manageability with Scout Enterprise (license required, evaluation right for up to 3 seats): <ul style="list-style-type: none"> ■ FUTRO utility tool for embedded Linux <ul style="list-style-type: none"> - Flash memory management - Embedded operating system update and system monitoring - Managing devices by location, group or user - Individual operating system composition with ELIAS
Security <ul style="list-style-type: none"> ■ Control Panel Password ■ Control Connection Configuration ■ Control Default Reset 	Security <ul style="list-style-type: none"> ■ SmartCard support within/without certificate for CardOS or Gem Plus cards ■ SICRYPT cards without certificate functionality
VPN <ul style="list-style-type: none"> ■ Only via CUZ 	VPN <ul style="list-style-type: none"> ■ VPN client from Cisco (license required) ■ VPN client Free S/WAN
Smartcard Support <ul style="list-style-type: none"> ■ Driver Support for Fujitsu Siemens Computers USB SmartCard Reader Solo 2 	Smartcard Support <ul style="list-style-type: none"> ■ Driver Support for Fujitsu Siemens Computers USB SmartCard Reader Solo 2
Hardware Support <ul style="list-style-type: none"> ■ USB Fujitsu Siemens Computers MEMORYBIRD V2.0 Rev.2 ■ PS/2 or USB Keyboard ■ PS/2 or USB Mouse 	Hardware Support <ul style="list-style-type: none"> ■ USB Fujitsu Siemens Computers MEMORYBIRD V2.0 Rev.2 ■ PS/2 or USB Keyboard ■ PS/2 or USB Mouse

Model	FUTRO A220	FUTRO A230	FUTRO A250
Operating System	Microsoft® Windows® CE 5.0	eLux ® NG (License incl.)	eLux ® NG w/o licence
Managing Software	Scout Enterprise (license incl.)	Scout Enterprise (license incl.)	Scout Enterprise w/o licence
Type	Thin client terminal	Thin client terminal	Thin client terminal
Software	Software Flash memory includes: Operating system Microsoft® Windows® CE 5.0 - ICA-Client - RDP-Client - Internet Explorer - Media Player - VNC Viewer - VPN Client - ThinPrint Client - Acrobat Viewer - Terminal Emulation PowerTerm (ANSI, VT320/420, IBM 3270/5250), optional additional license requested	Flash memory includes: Operating system eLux NG - ICA-Client - RDP-Client functionality - Browser - Acrobat Reader - Sun JVM 1.5 - Tarantella-Client - ThinPrint Client - Terminal-Emulations for ANSI, 97801, VT320 - X.11 Terminal-Application - Terminal Emulation PowerTerm (ANSI, VT320/420, IBM 3270/5250), optional additional license requested	Flash memory includes: Operating system eLux NG - ICA-Client - RDP-Client functionality - Browser - Acrobat Reader - Sun JVM 1.5 - Tarantella-Client - ThinPrint Client - Terminal-Emulations for ANSI, 97801, VT320 - X.11 Terminal-Application - Terminal Emulation PowerTerm (ANSI, VT320/420, IBM 3270/5250), optional additional license requested
Flash memory for operating system (MByte)	128	128	256
Mainboard	OEM	OEM	OEM
Cabinet	Picotower	Picotower	Picotower
Processor	AMD LX800, 500 MHz	AMD LX800, 500 MHz	AMD LX800, 500 MHz
System Bus	-	-	-
Memory (MByte)	128	128	256
Floppy disk drive	optional via USB	optional via USB	optional via USB
Optical drive	optional via USB	optional via USB	optional via USB
Hard disk drive (GByte)	optional via USB	optional via USB	optional via USB
Slots	-	-	-
Graphics (MByte)	VESA display support with DDC for automatic adjustment of resolution and refresh rate 32 MB discrete VideoRAM	VESA display support with DDC for automatic adjustment of resolution and refresh rate 32 MB discrete VideoRAM	VESA display support with DDC for automatic adjustment of resolution and refresh rate 32 MB discrete VideoRAM
Audio	on board	on board	on board
LAN (on board)	10/100 /1000 MBit/s Fast Ethernet	10/100 /1000 MBit/s Fast Ethernet	10/100 /1000 MBit/s Fast Ethernet
Weight (kg)	approx. 0.6	approx. 0.6	approx. 0.6
Dimensions (H x W x D) in mm	195 x 152 x 43	195 x 152 x 43	195 x 152 x 43
Options	-	-	-
Special features	Fanless, silent operation, very low power consumption (average 7 W, max. 8.5 W), high reliability, long service life, no maintenance, small space requirement	Fanless, silent operation, very low power consumption (average 7 W, max. 8.5 W), high reliability, long service life, no maintenance, small space requirement	Fanless, silent operation, very low power consumption (average 7 W, max. 8.5 W), high reliability, long service life, no maintenance, small space requirement

Interfaces

1 x Mic in / headphone out (rear)
 1 x Line out (rear)
 1 x keyboard (PS/2) (rear)
 1 x mouse (PS/2) (rear)
 1 x monitor (15-pin, VGA)
 1 x LAN RJ-45
 1 x serial
 1 x Universal Serial Bus (USB 2.0) (rear)
 2 x Universal Serial Bus (USB 2.0) (front)

Display modes

VESA monitor support with DDC for automatic setting of resolution and refresh rate

Video RAM 32 MB shared memory

Resolution selectable

32/24/16/8 bit colors 1600 x 1200 / max 100 Hz

32/24/16/8 bit colors 1280 x 1024 / max 100 Hz

32/24/16/8 bit colors 1024 x 768 / max 100 Hz

32/24/16/8 bit colors 800 x 600 / max 100 Hz

32/24/16/8 bit colors 640 x 480 / max 100 Hz

Wide screen, frequency of 75 Hz and 24 bit color depth

TFT-VGA 1440x900 / 1680x1050 (eLux only)

Connectivity**TP (Twisted Pair), RJ-45**

TCP/IP with DNS and DHCP

Point-to-Point over Ethernet

Point-to-Point tunneling protocol

Layer-2 tunneling protocol

Supported Citrix Load Balancing on ICA

SNMP support allows configuration of terminal settings, reporting of terminal configuration and attached devices, traps

DHCP support for automatic firmware upgrades and unit configuration

multiple master browser support on ICA

Wake on LAN

PXE

Electrical values (external AC/DC power supply)

Rated voltage (AC input) 100 - 240 V

Rated frequency 50/60 Hz

DC output 12V, tbd A,

Power consumption for standard configuration (AC input)

Peak (running application) 8.5 W

Average (running OS, Idle mode) 7 W

Minimum (ACPI status S5, soft-off) 2.3 W

Temperature / dimensions / weight

Ambient temperature 15°C – 35°C (IEC721)

Dimensions (H x W x D) 195 x 152 x 43

Weight 0.75 kg

Compliance with standards

Product safety IEC60950, EN60950, UL60950, CAN/CSA-C22.2 No.60950-00

Electromagnetic Compatibility EN55022 class B, EN55024EN61000-3-2/-3, FCC class B, ICES-003 tbd

CE-Certification according to EC Directive 89/336/EEC 73/23/EEC

Security functions

Security functions implemented in the cabinet:

- Access protection via external SmartCard reader (optional)
- Write-protect facility for Flash EPROM
- Kensington Lock at rear side

Available languages

English for CE.

27 selectable languages for eLuxNG

Backpacksolution in combination with FUTRO A2xx

The backpack solution for FUTRO A2xx in combination with below listed LCD monitors offers a smart solution to combine the small form factor thin client FUTRO A2xx and a TFT display to one space saving unit. It is positioned against the "All-in-one" Thin Clients (integrated in Display) of our competitors.

Value add is also that with the extended mounting bracket the cables are hidden which is resulting in a very tidy workplace.

Our backpack solution offers big advantages due the possibility for modular changes of the Thin Client or the LCD Monitor whenever necessary.

The backpack solution fulfills all ergonomic standards and fits perfect for:

- Small office environment
- Point of sales and shops
- Internet and Information terminals

Order code: S26361-F2601-L518

Please find the list of compatible Displays for the FUTRO A2xx backpack solution below.



Display model	FUTRO A Vesa Kit?	Distance screws?
A17-3/ A19-3	Yes	not necessary
A17-3A/ A19-3A	No	---
B19-2/ B17-2	Yes	not necessary
B19-3/ B17-3	Yes	yes, distance screws needed
P19-2/ P17-2	Yes	yes, distance screws needed
P19-3	Yes	yes, distance screws needed
P20-2	Yes	yes, distance screws needed
H19-2/ H19-1	Yes (remove back cover)	not necessary