

FUTRO S400

The modular multi-talent with a strong heart

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Check out the FUTRO S400 with a in its performance class unique modular concept due to a free PCI-slot plus a modular bay - fully configurable via PC Architect, which gives you excellent customizing down to the single unit.

The FUTRO S400 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. Selectively, an optional SmartCard reader is integrated as another security implement. Highly flexible concept to install WLAN and DVI modules and additional PCI cards offer wide ranges of configurations with FUTRO S400

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

Without fan and rotating parts, the FUTRO S400 is reliable, fail-safe and silent.

All that turns the FUTRO S400 into a minimizer of Total Cost of Ownership.

Accessibility

- Embedded Linux (eLux NG) or Windows XP Embedded (XPe) 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
- Support for analogue modem connectivity via optional USB devices (eLux only)
- Support for ISDN WAN connectivity
- Variety of browsers including Java Virtual Machine for direct internet connection (depending on OS)
- Support of extended memory with MEMORYBIRD, external USB floppy drive and a wide range of Fujitsu Siemens Computers' keyboards
- DVI & WLAN functional modules optional installable

Reliability

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

Manageability

- 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 or Windows XP Embedded solution
- Altiris® Deployment Solution™ for clients integrated in Windows XP Embedded solution

Security

- Optional SmartCard reader inside (PKI approved)
- Secure operating system embedded on flash memory
- Comfortable security support for SmartCard integration within/without certificates
- Secure data transaction via VPN available
- Kensington lock and intrusion switch against not authorized access

Ergonomics

- Space saving through vertical usage and small footprint
- Stress-free working and silent operation without any rotating fan and drives
- Low power consumption



Operating systems and software

<p>eLux®NG - Embedded Linux eLux®NG is a Linux based embedded operating system, specially developed for use in FUTRO to apply as thin clients in server-based environments.</p>	<p>Windows XP Embedded Windows XP Embedded is the modulated version of the desktop operating system Windows XP Professional, enabling development of reliable and full-featured connected devices.</p>
<p>Target group From Small Enterprises to Large Accounts</p>	<p>Target group Ideally suited for medium and large enterprise customers with decentralize system configurations and branch offices</p>
<p>Local functions</p> <ul style="list-style-type: none"> ■ ICA-Client V 9.x ■ RDP-Client V 5.2 functionality ■ Browser Mozilla, Opera or Firefox available ■ Acrobat Reader ■ Tarantella-Client ■ Terminal emulations for ANSI, 97801, VT320 ■ X.11 terminal application ■ Local SAP GUI 4.6 (256 MB Flash requested) <p>Local functions requiring further licenses</p> <ul style="list-style-type: none"> ■ IBM 3270 / 5250, FSC 9750 emulation, additional license requested, provided by UniCon Software Development 	<p>Local functions on 256MB / 512MB / 1GB Flash standard factory load</p> <ul style="list-style-type: none"> ■ ICA-Client V 9.x ■ RDP-Client V 5.2 ■ Internet Explorer ■ Acrobat Reader ■ Media Player ■ Windows Installer ■ Thin Print Client ■ Altiris® Deployment Server™ client <p>Additional local functions on 512MB or 1GB Flash possible via update Server</p> <ul style="list-style-type: none"> ■ Acrobat Reader 7.0.5 ■ Media Player 9.0 ■ DeskView V10
<p>Options available Integration of additional features like Wireless LAN support, remote administration, printer support, VPN and Firewall Support will be offered by Fujitsu Siemens Computers made4you program</p>	<p>Options available via Customizing Integration of additional features like Wireless LAN support, remote administration, printer support, VPN and Firewall Support will be offered by Fujitsu Siemens Computers made4you program</p>
<p>Manageability with Scout Enterprise V10:</p> <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 - license for 25 seats included 	<p>Manageability</p> <ul style="list-style-type: none"> ■ Altiris® Deployment Server™ for clients preinstalled <p>or</p> <ul style="list-style-type: none"> ■ Scout Enterprise V10 (license for 25 seats included)
<p>Security</p> <ul style="list-style-type: none"> ■ SmartCard support with/without certificate for CardOS or Gem Plus cards ■ SICRYPT cards only without certificate functionality 	<p>Security</p> <ul style="list-style-type: none"> ■ Driver for SmartCard reader hardware
<p>VPN</p> <ul style="list-style-type: none"> ■ VPN client from Cisco (license required) ■ VPN client Free S/WAN 	<p>VPN</p> <ul style="list-style-type: none"> ■ VPN through CUZ available
<p>Wireless LAN</p> <ul style="list-style-type: none"> ■ Support for internal PCI WLAN Card (optional) 	<p>Wireless LAN</p> <ul style="list-style-type: none"> ■ Support for internal PCI WLAN Card (optional)
<p>DVI</p> <ul style="list-style-type: none"> ■ Internal DVI module (optional) 	<p>DVI</p> <ul style="list-style-type: none"> ■ Internal DVI module (optional)

System	FUTRO S400	
Operating System	eLux@NG	XPe
Flash memory (MB), Compact Flash Card	128/256/512MB	256/512/ 1GB (via CUZ 2GB/4GB)
System memory (MB),DDR SDRAM	256, 512	256, 512, (1GB only via CUZ)

Operating Systems / Software

Windows XP Embedded or eLux NG on flash memory
If the ICA protocol is selected, the
MetaFrame®/Presentation server Software from Citrix is
required (optional).

Mainboard

Processor AMD NX1500 1GHz
Graphic Processor (GPU) embedded

Interfaces

1 x serial (9-pin, 16-byte FIFO, 16550-compatible)
1 x parallel (25-pin, with EPP and ECP) for printing
via ICA protocol (local and / or over network)
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 PCI Slot midsize (max. 155mm length)
1 x line out (stereo) rear
1 x headphone out (stereo) front
1 x micro (mono) front
4 x universal Serial Bus (USB 2.0) 2 x front panel, 2 x rear
side
1 x SmartCard reader (optional integrated via internal USB)
1 x extension for optional DVI module or WLAN module

Display modes

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

Video RAM 32 MB

Resolution selectable

32 bit colors, max 1600 x 1200 / max 85 Hz
32/16/8 bit colors 1280 x 1024 / max 85 Hz
32/16/8 bit colors 1024 x 768 / max 85 Hz
32/16/8 bit colors 800 x 600 / max 85 Hz
32/16/8 bit colors 640 x 480 / max 85Hz

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

TFT-VGA 1440x900 / 1680x1050 / 1920x1200
TFT-DVI 1440x900 / 1680x1050

Network

LAN on board 10/100/1000 Mbit/s Fast Ethernet
Connectivity TP (Twisted Pair), RJ-45
TCP/IP with DNS and DHCP
Point-to-Point protocol
Supported Citrix Load Balancing over 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

Audio

On board
Output: full 16-bit stereo sound, AC'97 codec

Electrical values (external AC/DC power supply)

Rated voltage (AC input) 100 - 240 V
Rated frequency (AC input) 50/60 Hz
DC output 12V / 4.2 A

Power consumption for standard configurations with XPe

Peak (running application) 27 W
Average (running OS, Idle mode) 18 W
Minimum (ACPI status S5, soft-off) 3.8 W

Temperature / dimensions / weight

Ambient temperature 15°C to 35°C to IEC 721
Dimensions with stand
(H x W x D) 246 x 68 x 177 mm
Dimensions without stand
(H x W x D) 246 x 48 x 177 mm
Weight 1.55kg

Compliance with standards

Product safety IEC60950-1, EN60950-1,
UL60950-1, CAN/CSA-C22.2
No.60950-1-03
Electromagnetic Compatibility EN55022 class B, EN55024
EN61000-3-2/-3,
FCC class B compliant soon

CE-Certification according to EC Directive
89/336/EEC
1999/5/EC
73/23/EEC

Environmental compatibility EPA-compliant

Security functions

Security functions implemented in the cabinet:
- Access protection via internal/external SmartCard reader
(optional)
- Write-protect facility for compact flash
- Kensington Lock

The resolution was successfully tested with a frequency of 75 Hz and 24 bit color depth