Data Sheet

We make sure



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FUTRO S300 Reliable computing without any restrictions

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Why take a fully featured PC for server based computing, when you can have everything you need in a reliable small form factor thin client?

The FUTRO S300 is ideally suited for Windows Terminal Server computing. The server exexutes 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. Smart administration tools help to update the client easily.

Without fan and rotating drives, the FUTRO S300 is reliable, fail-safe and silent.

All that turns the FUTRO S300 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 WAN 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

Reliability

- Cost-optimized and trusted solution for displaying and running Windows applications
- Approved by Microsoft Terminal Server and Citrix MetaFrame 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 NG for embedded Linux solution
- Altiris® Deployment SolutionTM for clients integrated in Windows XP Embedded solution

Security

- Secure (write protected) operating system embedded on flash memory
- Optional SmartCard reader inside (PKI approved)
- Security support for SmartCard integration in connection with Citrix MetaFrame/Presentation Server
- SmartCards with CardOS, GemPLUS or German Health Insurance format are supported by eLux. (within/without certification)
- Secure data transaction via VPN available

Ergonomics

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



Operating systems and software

eLux NG - Embedded Linux	Windows XP Embedded		
eLux NG is a Linux based embedded operating system, specially developed for use in FUTRO to apply as thin clients	Windows XP Embedded is the modulated version of the desktop operating system Windows XP Professional,		
in server-based environments.	enabling development of reliable and full-featured connected devices.		
Target group	Target group		
From Small Enterprises to Large Accounts	Ideally suited for medium and large enterprise customers with decentralize system configurations and branch offices		
Local functions	Local functions		
■ ICA-Client	■ ICA-Client		
RDP-Client	RDP-Client		
Mozilla BrowserOpera Browser	Internet Explorer V 6.0Acrobat Reader (V4.05 on 256MB Flash, V7.0 on		
■ Firefox Browser	512MB Flash		
■ Acrobat Reader	■ Media Player (V 6.4 on 256MB Flash, V10 on 512MB		
■ Sun JVM 1.5	Flash)		
■ Tarantella-Client	■ Sun JVM 1.5 (only on 512MB Flash)		
Terminal emulations for ANSI, 97801, VT320	Windows Installer		
X.11 terminal applicationLocal SAP GUI 4.6 on 128MB or 256 MB Flash	■ Altiris® Deployment Solution™ for clients		
Local functions requiring further licenses			
■ IBM 3270 / 5250, FSC 9750 emulation, additional			
license necessary, available from UniCon			
Options available	Options available via Customizing		
Integration of additional features like Wireless LAN support,	Integration of additional features like Wireless LAN		
remote administration, printer support, VPN and Firewall	support, remote administration, printer support, VPN		
Support will be offered by Fujitsu Siemens Computers	and Firewall Support will be offered by Fujitsu Siemens		
made4you program	Computers made4you program		
Manageability with SCOUT NG (license required, evaluation right for up to 3 seats):	Manageability ■ Altiris® Deployment Solution™ for clients preinstalled		
■ FUTRO utility tool for embedded Linux	Aitins® Deployment Solution for clients preinstailed		
Flash memory management			
 Embedded operating system update and system 			
monitoring			
Managing devices by location, group or user In this ideal are action as a factor of the second and the second are second as a second as a second are secon			
Individual operating system composition with ELIAS			
Security	Security		
 SmartCard support within/without certificate for CardOS or GemPlus cards 	■ Driver for SmartCard reader hardware		
Sicrypt cards only without certificate functionality			
available			
VPN			
 VPN client from Cisco (license required) 			
■ VPN client Free S/WAN			
Wireless LAN	Wireless LAN		
■ Support for internal D-Link PCI WLAN Card (download)	■ Support for internal D-Link PCI WLAN Card		
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System	FUTRO S300	
Operating System	eLux NG	XPe
Flash memory (MB), Compact Flash Card	128, 256	256, 512
System memory (MB),DDR SDRAM	128, 256, 512	256, 512 (1GB 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 Crusoe TM5800 800 MHz Graphic Processor (GPU) SiS315T

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 PCI Slot midsize

1 x audio out 1/8-inch mini

1 x Headphone out

1 x micro 1/8-inch

4 x Universal Serial Bus (USB 2.0);

2 x in front panel, 2 x rear side

1 x SmartCard reader (optional integrated via internal USB)

Display modes

Video RAM 32MB (independent from RAM memory) VESA monitor support with DDC for automatic setting of

resolution and refresh rate Resolution selectable

32 bit colors, max 32/16/8 bit coloras 32/16/8 bit coloras

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

Input: 8-bit mini microphone

Electrical values (internal AC/DC power supply)

Rated voltage 100 - 240 V Rated frequency 50/60 Hz Max. power consumption 0.7 A

Power consumption for standard configurations with

XPe

Peak (running application) 15.9 W Average (running OS, Idle mode) 10.1 W Minimum (ACPI status S5, soft-off) 2.3 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 1.5 kg

Compliance with standards

Product safety IEC60950, EN60950,

UL60950, CAN/CSA-C22.2

No.60950-00

Electromagnetic Compatibility EN55022 class B, EN55024

EN61000-3-2/-3, FCC

class B, ICES-003

CE-Certification according to EC Directive

89/336/EEC

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 Flash EPROM
- Kensington Lock at rear side