

v1.17_Datasheet SoftWLC

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SoftWLC - Wi-Fi, . SoftWLC Wi-Fi, . , .

SoftWLC

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- : , ,
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- , ,
-
- Wi-Fi, : SMS, SMS, , , ,
- , ,
-
- (Enterprise) . /, (TLS)
- "" ,
-
- , B2B
- (B2B), Wi-Fi
- (B2B), ,
- (Northbound) , OSS OSS B2B-

SoftWLC

- **EMS-**
 -
 - SNMP-
 - ;
 -
 -
 - ,
 -
 - , (RRD)
- **WEB**
 - , WEB- Hotspot-
- - , Hotspot-
- **B2B**
 - Wi-Fi
- **Database**
 - Mysql
 - MongoDB
- **RADIUS-**
 -
 - WPA-enterprise
- **DHCP-**
 - () IP- 43 (11 12) , GRE ESR
 - (management,) IP- 43 (10 13) ,
 - IP- Wi-Fi ,
 - DHCP 82, 60 giAddrField
- **APB-**
 - , WEB-
 -
- **Auth Service**
 -
 - B2B
 -
- **Notification Gateway**
 - (SMS-, Call-) SMTP, SMPP, HTTP, WebSocket
- **PCRF**
 - , Wi-Fi , BRAS (,)
 -
 - Wi-Fi

- Wi-Fi , WPA-enterprise BRAS
- NBI
 - SoftWLC SOAP
 - -
 -
 - PCRF
 - TLS

, SoftWLC:

- - SNMP
 - ICMP
- - Eltex
 - EAP (WPA2- enterprise) RADIUS
 - (BRAS +PCRF)
- - Eltex
- - SMS-
 - SMSC
 -
 -
 -
 - SevenSky
 - GSM (NetPing SMS)
 - Active Directory
 - Hot WiFi
-

() :

- EAP (WPA2)
 - IEEE 802.11i (Wi-Fi Protected Access II,)
 - AES ()
 - RFC 3748
- SNMP
 - IETF, TCP/IP
 - RFC 1157
- ICMP
 - (STD 5)
 - RFC 792
- Radius
 - RFC 2866 RADIUS AccountingL
- RRM
 - IEEE 802.11h -
 - IEEE 802.11k - RRM
- SMTP
 - RFC 5321
- HTTP
 - RFC 2616
- WebSocket
 - RFC 6455
- IEEE 802.11r

SoftWLC

- Ubuntu Server 16.04 LTS

, (VM):

	VM	CPU core, Xeon	RAM, Gb	HDD, Gb
10 200	SoftWLC	4, 64-bit x86 CPUs	8	200
200 500	SoftWLC	4, 64-bit x86 CPUs	16	200

500 1000	SoftWLC	6, 64-bit x86 CPUs	12	200
	DataBase	4, 64-bit x86 CPUs	16	200
1. 2.	EMS	6, 64-bit x86 CPUs	14	200
	RADIUS	4, 64-bit x86 CPUs	6	100
	WEB-Portal	4, 64-bit x86 CPUs	8	40
	MySQL	4, 64-bit x86 CPUs	24	500
	MongoDB	4, 64-bit x86 CPUs	10	200

SoftWLC ()

- Ubuntu Server 16.04 LTS

, (VM):

	VM	CPU core, Xeon	RAM, Gb	HDD, Gb	
10 200	EMS-1	4, 64-bit x86 CPUs	8	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-radius eltex-pcrf eltex-auth-service eltex-apb eltex-portal mysql eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db mongodb isc-dhcp-server eltex-wifi-cab eltex-portal-constructor eltex-ngw
	EMS-2	4, 64-bit x86 CPUs	8	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-radius eltex-pcrf eltex-auth-service eltex-apb eltex-portal mysql eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db mongodb isc-dhcp-server eltex-wifi-cab eltex-portal-constructor eltex-ngw
	MongoDB (arbitier)	1, 64-bit x86 CPUs	2	20	mongodb (arbitier)

200 500	EMS-1	4, 64-bit x86 CPUs	16	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-radius eltex-pcrf eltex-auth-service eltex-apb eltex-portal mysql eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db mongodb isc-dhcp-server eltex-wifi-cab eltex-portal-constructor eltex-ngw
	EMS-2	4, 64-bit x86 CPUs	16	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-radius eltex-pcrf eltex-auth-service eltex-apb eltex-portal mysql eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db mongodb isc-dhcp-server eltex-wifi-cab eltex-portal-constructor eltex-ngw
	MongoDB (arbitier)	1, 64-bit x86 CPUs	2	20	mongodb (arbitier)
500 1000	EMS-1	6, 64-bit x86 CPUs	12	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-radius eltex-pcrf eltex-auth-service eltex-apb eltex-portal isc-dhcp-server eltex-wifi-cab eltex-portal-constructor eltex-ngw mongodb (arbitier)
	EMS-2	6, 64-bit x86 CPUs	12	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-radius eltex-pcrf eltex-auth-service eltex-apb eltex-portal isc-dhcp-server eltex-wifi-cab eltex-portal-constructor eltex-ngw mongodb (arbitier)
	DataBase-1	4, 64-bit x86 CPUs	16	200	mysql eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db mongodb

	DataBase-2	4, 64-bit x86 CPUs	16	200	mysql eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db mongodb
1. 2.	EMS-1	6, 64-bit x86 CPUs	14	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-wifi-cab eltex-portal-constructor
	EMS-2	6, 64-bit x86 CPUs	14	200	tomcat jdk eltex-ems eltex-axis eltex-radius-nbi eltex-wifi-cab eltex-portal-constructor
	RADIUS-1	4, 64-bit x86 CPUs	6	100	jdk eltex-radius eltex-pcrf eltex-auth-service isc-dhcp-server
	RADIUS-2	4, 64-bit x86 CPUs	6	100	jdk eltex-radius eltex-pcrf eltex-auth-service isc-dhcp-server
	WEB-Portal-1	4, 64-bit x86 CPUs	8	40	tomcat jdk eltex-portal eltex-apb
	WEB-Portal-2	4, 64-bit x86 CPUs	8	40	tomcat jdk eltex-portal eltex-apb
	MySQL-1	4, 64-bit x86 CPUs	24	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MySQL-2	4, 64-bit x86 CPUs	24	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db mongodb (arbiter)
	MongoDB-1	4, 64-bit x86 CPUs	10	200	mongodb
	MongoDB-2	4, 64-bit x86 CPUs	10	200	mongodb
	MongoDB-3 (arbiter)	4, 64-bit x86 CPUs	10	200	mongodb (arbiter)
2. 3.	EMS-1	6, 64-bit x86 CPUs	18	200	tomcat jdk eltex-ems
	EMS-2	6, 64-bit x86 CPUs	18	200	tomcat jdk eltex-ems
	NBI-1	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-2	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	RADIUS-1	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service isc-dhcp-server

	RADIUS-2	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service isc-dhcp-server
	WEB-Portal-1	4, 64-bit x86 CPUs	10	40	tomcat jdk eltex-portal eltex-apb
	WEB-Portal-2	4, 64-bit x86 CPUs	10	40	tomcat jdk eltex-portal eltex-apb
	MySQL-1	4, 64-bit x86 CPUs	56	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MySQL-2	4, 64-bit x86 CPUs	56	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MongoDB-1	4, 64-bit x86 CPUs	20	200	mongodb
	MongoDB-2	4, 64-bit x86 CPUs	20	200	mongodb
	MongoDB-3 (arbitier)	4, 64-bit x86 CPUs	20	200	mongodb (arbitier)
	WiFi-Cab-1	4, 64-bit x86 CPUs	10	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
	WiFi-Cab-2	4, 64-bit x86 CPUs	10	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
3. 4.	EMS-1	8, 64-bit x86 CPUs	20	200	tomcat jdk eltex-ems
	EMS-2	8, 64-bit x86 CPUs	20	200	tomcat jdk eltex-ems
	NBI-1	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-2	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	RADIUS-1	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	RADIUS-2	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	APB-1	4, 64-bit x86 CPUs	10	40	jdk eltex-apb
	APB-2	4, 64-bit x86 CPUs	10	40	jdk eltex-apb
	WEB-Portal-1	4, 64-bit x86 CPUs	10	40	tomcat jdk eltex-portal
	WEB-Portal-2	4, 64-bit x86 CPUs	10	40	tomcat jdk eltex-portal

	MySQL-1	4, 64-bit x86 CPUs	64	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MySQL-2	4, 64-bit x86 CPUs	64	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MongoDB-1	4, 64-bit x86 CPUs	24	200	mongodb
	MongoDB-2	4, 64-bit x86 CPUs	24	200	mongodb
	MongoDB-3 (arbiter)	4, 64-bit x86 CPUs	24	200	mongodb (arbiter)
	DHCP-1	2, 64-bit x86 CPUs	4	40	isc-dhcp-server
	DHCP-2	2, 64-bit x86 CPUs	4	40	isc-dhcp-server
	WiFi-Cab-1	4, 64-bit x86 CPUs	12	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
	WiFi-Cab-2	4, 64-bit x86 CPUs	12	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
4 . 5 .	EMS-1	8, 64-bit x86 CPUs	24	200	tomcat jdk tex-ems
	EMS-2	8, 64-bit x86 CPUs	24	200	tomcat jdk eltex-ems
	NBI-1	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-2	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-3	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-4	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	RADIUS-1	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	RADIUS-2	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	APB-1	4, 64-bit x86 CPUs	12	40	jdk eltex-apb
	APB-2	4, 64-bit x86 CPUs	12	40	jdk eltex-apb
	WEB-Portal-1	4, 64-bit x86 CPUs	12	40	tomcat jdk eltex-portal
	WEB-Portal-2	4, 64-bit x86 CPUs	12	40	tomcat jdk eltex-portal

	MySQL-1	4, 64-bit x86 CPUs	64	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MySQL-2	4, 64-bit x86 CPUs	64	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MongoDB-1	4, 64-bit x86 CPUs	32	200	mongodb
	MongoDB-2	4, 64-bit x86 CPUs	32	200	mongodb
	MongoDB-3 (arbiter)	4, 64-bit x86 CPUs	32	200	mongodb (arbiter)
	DHCP-1	2, 64-bit x86 CPUs	4	40	isc-dhcp-server
	DHCP-2	2, 64-bit x86 CPUs	4	40	isc-dhcp-server
	WiFi-Cab-1	4, 64-bit x86 CPUs	14	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
	WiFi-Cab-2	4, 64-bit x86 CPUs	14	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
5 .	EMS-1	8, 64-bit x86 CPUs	32	200	tomcat jdk tex-ems
	EMS-2	8, 64-bit x86 CPUs	32	200	tomcat jdk eltex-ems
	NBI-1	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-2	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-3	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-4	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	RADIUS-1	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	RADIUS-2	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	APB-1	4, 64-bit x86 CPUs	16	40	jdk eltex-apb
	APB-2	4, 64-bit x86 CPUs	16	40	jdk eltex-apb
	WEB-Portal-1	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-portal
	WEB-Portal-2	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-portal

	MySQL-1	4, 64-bit x86 CPUs	>64	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MySQL-2	4, 64-bit x86 CPUs	>64	500	mysql jdk eltex-ems-db eltex-rradius-db eltex-auth-service-db eltex-portal-db
	MongoDB-1	4, 64-bit x86 CPUs	32	200	mongodb
	MongoDB-2	4, 64-bit x86 CPUs	32	200	mongodb
	MongoDB-3 (arbiter)	4, 64-bit x86 CPUs	32	200	mongodb (arbiter)
	DHCP-1	2, 64-bit x86 CPUs	4	40	isc-dhcp-server
	DHCP-2	2, 64-bit x86 CPUs	4	40	isc-dhcp-server
	WiFi-Cab-1	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
	WiFi-Cab-2	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
10 .	EMS-1	8, 64-bit x86 CPUs	64	200	tomcat jdk tex-ems
	EMS-2	8, 64-bit x86 CPUs	64	200	tomcat jdk eltex-ems
	NBI-1	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-2	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-3	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	NBI-4	2, 64-bit x86 CPUs	4	40	tomcat jdk eltex-axis eltex-radius-nbi
	RADIUS-1	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	RADIUS-2	4, 64-bit x86 CPUs	8	100	jdk eltex-radius eltex-pcrf eltex-auth-service
	APB-1	4, 64-bit x86 CPUs	16	40	jdk eltex-apb
	APB-2	4, 64-bit x86 CPUs	16	40	jdk eltex-apb
	WEB-Portal-1	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-portal
	WEB-Portal-2	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-portal

MySQL-1	4, 64-bit x86 CPUs	>16	200 10k RAID10	mysql jdk eltex-ems-db eltex-auth-service-db eltex-portal-db
MySQL-2	4, 64-bit x86 CPUs	>16	200 10k RAID10	mysql jdk eltex-ems-db eltex-auth-service-db eltex-portal-db
MySQL-3 (RADIUS)	4, 64-bit x86 CPUs	>120	1 T 10k RAID10	mysql eltex-radius-db
MySQL-4 (RADIUS)	4, 64-bit x86 CPUs	>120	1 T 10k RAID10	mysql eltex-radius-db
MongoDB-1	4, 64-bit x86 CPUs	32	200	mongodb
MongoDB-2	4, 64-bit x86 CPUs	32	200	mongodb
MongoDB-3 (arbitier)	4, 64-bit x86 CPUs	32	200	mongodb (arbitier)
DHCP-1	2, 64-bit x86 CPUs	8	40	isc-dhcp-server
DHCP-2	2, 64-bit x86 CPUs	8	40	isc-dhcp-server
WiFi-Cab-1	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor
WiFi-Cab-2	4, 64-bit x86 CPUs	16	40	tomcat jdk eltex-wifi-cab eltex-portal-constructor

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