

Corporate Presentation

Astramatix



- ASTRAMATIX is an exciting and emerging company in Engineering Solutions and Services arena. It brings together people with right skills and experience set, who are self motivated dedicated and those who deliver.
- Astramatix enables testing and analyzing of wireless networks to ensure best quality of end user experience. Mobile Network
 Testing branded solutions are represented within Astramatix services. These offerings enable live (real time) mobile network testing
 and analyzing including identification of problems in the radio network, with a commercial device to ensure subscribers are able to
 send and receive telephone calls and use data services and applications. This allows network operators, equipment manufacturers,
 service providers and regulatory authorities to measure, analyze and optimize network coverage and quality.
- Astramatix is Business partner of Celfinet who are the global provider of cellular networks' management solutions headquartered in Lisbon, Portugal and with offices in Porto, Madrid (Spain), Sao Paulo (Brazil) and Newbury (UK). The solutions offering includes Network performance management and optimization, Network support processes optimization, Capacity management, Telecoms training, Mobile network consulting, and CRM for the 2G/3G/ 4G technologies in mobile networks and for fixed transport and access networks.
- Partnered with Overland Tangberg for Data Management and Retention Solutions, built on Strong intellectual portfolio of 87
 patents and 37 patents pending. Strong Product Portfolio involving Solutions for Active Data to Data At Rest.
- Partnered with ELTEK Technologies. The Eltek devices are especially designed to achieve the best quality with the lowest failure
 rates in the market. The Eltek Eco Design complies to the latest European power saving standards as well as to the highest
 consumer safety. The Eltek products can be fully customized at your needs. The famous, feature rich Eltek firmware makes the
 adaptation to your network in an easy plug and playmode.

Introduction



- Enabling Network Complexity Management
- GLOBAL SOLUTIONS PROVIDER FOR RADIO ACCESS NETWORKS



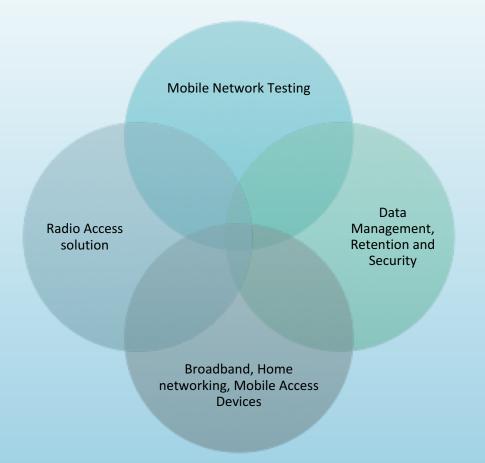
Eltek Technologies Worldwide Leader in Access Devices



• Data Management, Retention and Security

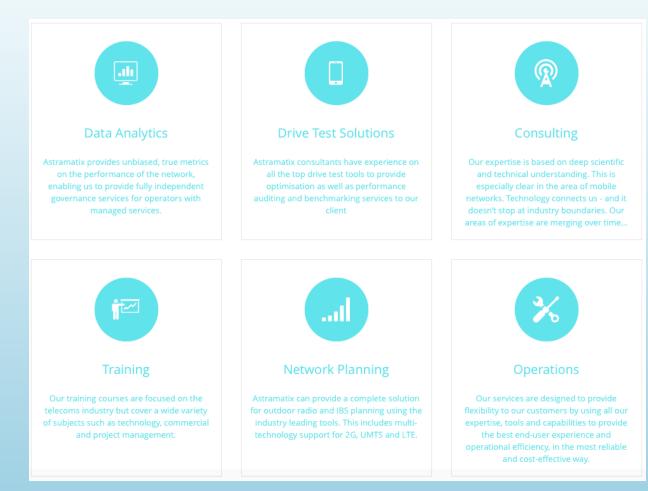


- Mobile network Testing products and solution
- Multi Vendor and Technology Radio Access Solution
 - Viscom Manager
 - Vismon Observer
 - Vismon Intelligence
- World Wide Leaders in Access Devices (ELTEK)
 - Broadband
 - Home Networking
 - Voice
 - Mobile
- Data Management , Retention and Security

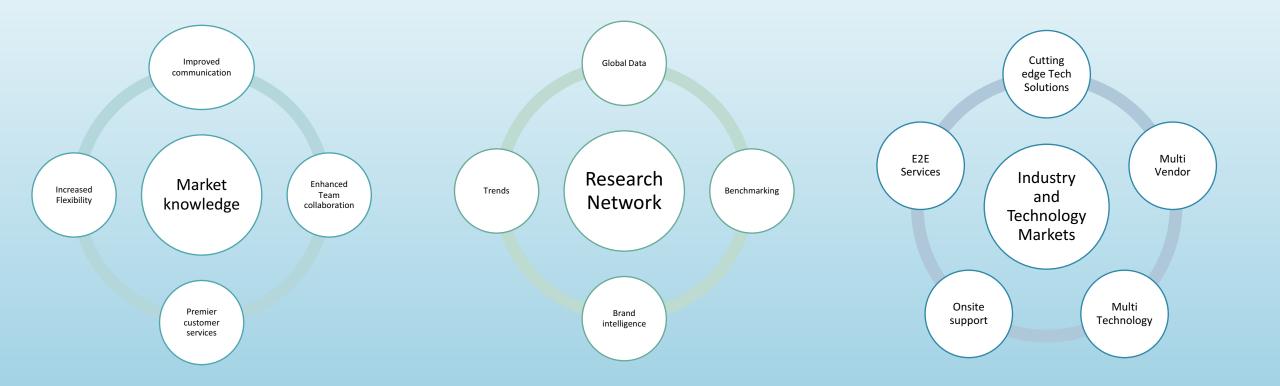


Our Products

- Customer Experience Management
- Network Audit Services
- Network Benchmarking Services
- Network Optimization
- Program and Project Management
- System Integration
- Customer support for all products
- Training and Expert Guidance



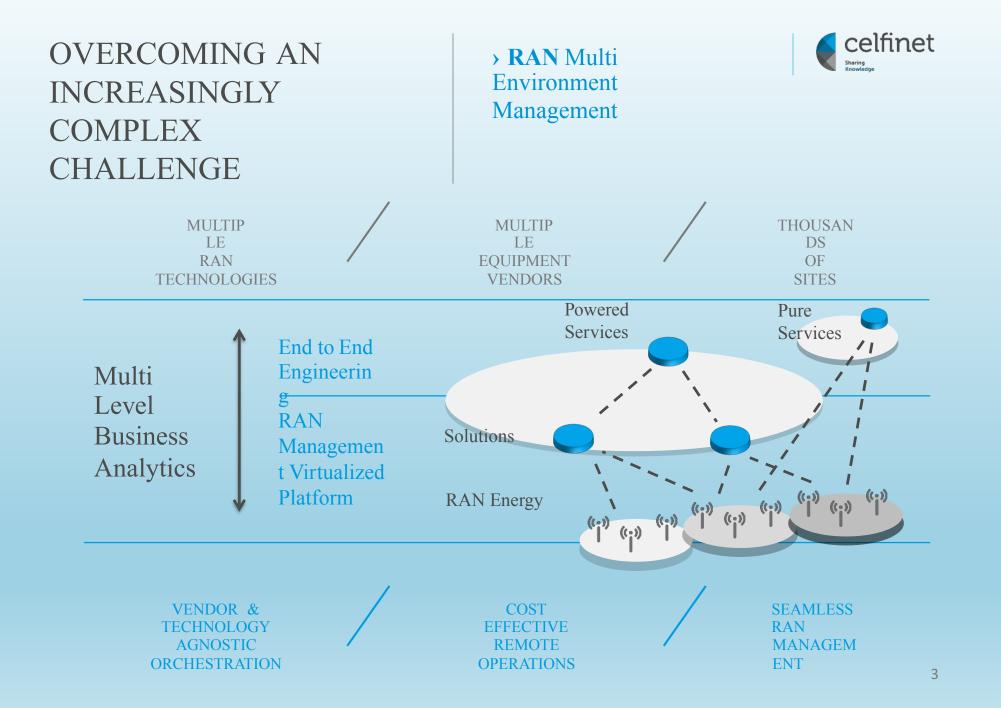
Our Services



Our Strengths



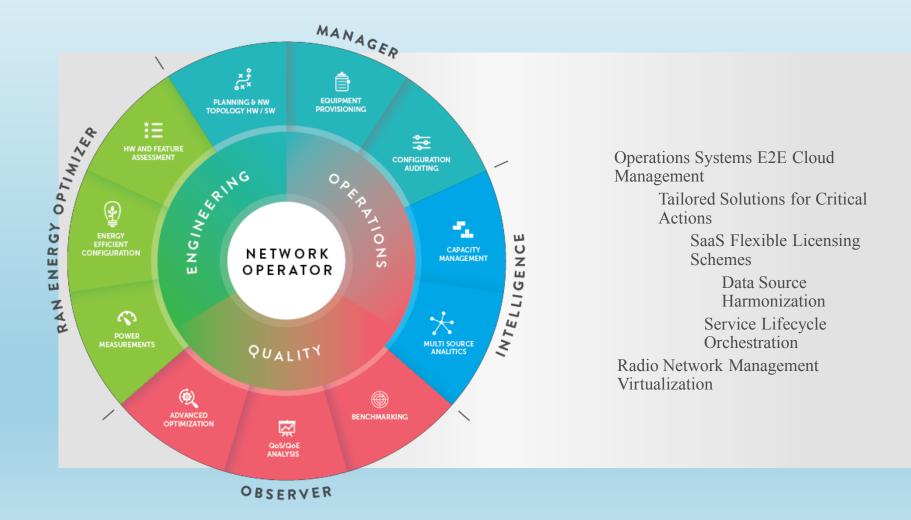
GLOBAL SOLUTIONS PROVIDER FOR RADIO ACCESS NETWORKS



VISMON ARCHITECT URE

Managing Network
 Complexity and
 Achieving Best Network through
 Cost Effective Approaches

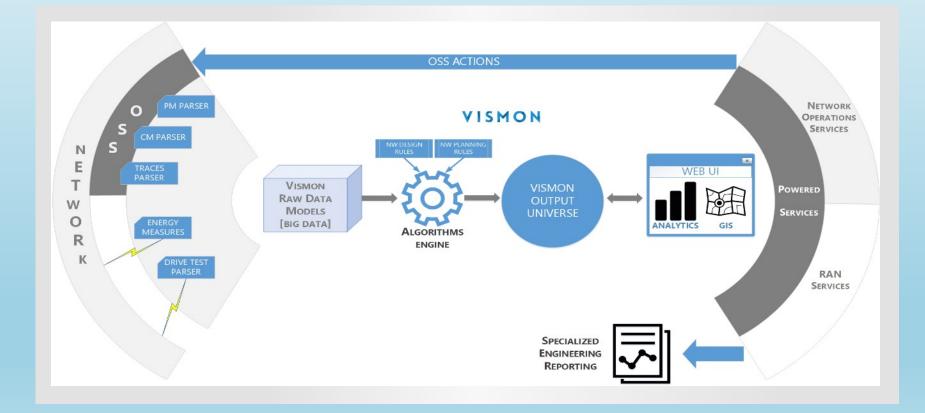




PRODUCT LEVERAGING SERVICES

> Operations System
 Management
 Platform
 Data Collection, Processing and
 Engineering Activities Enabler





VISMON MANAGER

Multi Vendor & Technology
 Network
 Configuration Solution
 Radio Access Networks Control
 and Maximum Service Provisioning





Detailed Topology and HW /SW Inventory

Complete Network Element Description

New Equipment Roll Out / Upgrade

Configuration Auditing and Correction

RAN Management VirtualizationLower Operational CostsFast & Effective ConsistencyAssurance Process

VISMO N OBSERV ER

 > Customer Experience & Network
 Troubleshooting Solution
 Benchmark and Outperform
 Competition





Coverage and Quality Analysis Engineering Optimization Algorithms Scalability and Persistency Drive Test and Customer Data Management Network Worst Areas Identification

Quality of Service Monitoring Competition Benchmarking Fast & Effective Troubleshooting Process

VISMON ENERGY

> Precisely Measure
 Power Consumption
 Lower Energy Cost Through Efficient
 Layer
 Configurations



ACCURATE AND SCALABLE Clock Sync with RAN Network

Measurements every 10 sec, < 1% Error Rate

Multi Vendor and Technology

PORTABLE AND REMOTELY MANAGEABLE

Remote Monitoring and Access

Portable and Fixed Models, max 2h installation time

Self Recovery

Self Managed Network Configuration for Po Power Efficiency



Storage and Data Retention

The Three Major RDX Applications





RDX Product Portfolio











RDX Product Positioning









1 piece of media Single drive Capacity: Up to 4TB

Protects: Single workstation or server

Typical backup scheme: 3 Media Rotation

RDX QUIKSTATION 4

4 pieces of media 4-drive appliance Capacity: Up to 16TB

Protects: Multiple workstations or servers

Typical backup scheme: Network attached RDX with multiple drives or one large RDX volume



RDX QUIKSTATION 8

8 pieces of media 8-drive appliance Capacity: Up to 32TB

Protects: Multiple workstations or servers

Typical backup scheme: Network attached disk array with multiple drives

Snapserver Product Positioning



Management

GuardianOS® web management interface for ease of management.



SnapStorage Manager™ to centrally manage multiple SnapServers.



XSD40 (Desktop)

- 4 drive bays
- Max capacity 32TB
- For small offices / ROBO (Quiet System)



XSR40 (1U)

- 4 drive bays
- Max capacity 400TB with 3 Expansion shelves
- For small office environments with moderate data growth



XSR120 (2U)

- 12 drive bays
- Max capacity 960TB with 7 Expansion shelves
- For SMBs and large enterprises with significant data growth



disks to the storage pool



Build a Hybrid Cloud in minutes. Replicate data to and from physical data center; integrate with on-premise active directory and LDAP authentication



Securely access any device, anywhere with business policy enforcement. Sync and share functionality enables data sharing between users and devices.

- Pay for only what you use
- **30 Day Free SnapCLOUD Trial available** •
- **1** Year Free SnapCloud when buy <u>select</u> NAS solution* •

* See exact list of part numbers, 16TB limit

Securely share Data via the Cloud

Tape Portfolio



NEO S-Series

- Autoloader the affordable Tape-Automation
- T24, 12 or 24
 Slots, 1 2 LTO
 Drives
- T48, 48 Slots,
 1 4 LTO Drives

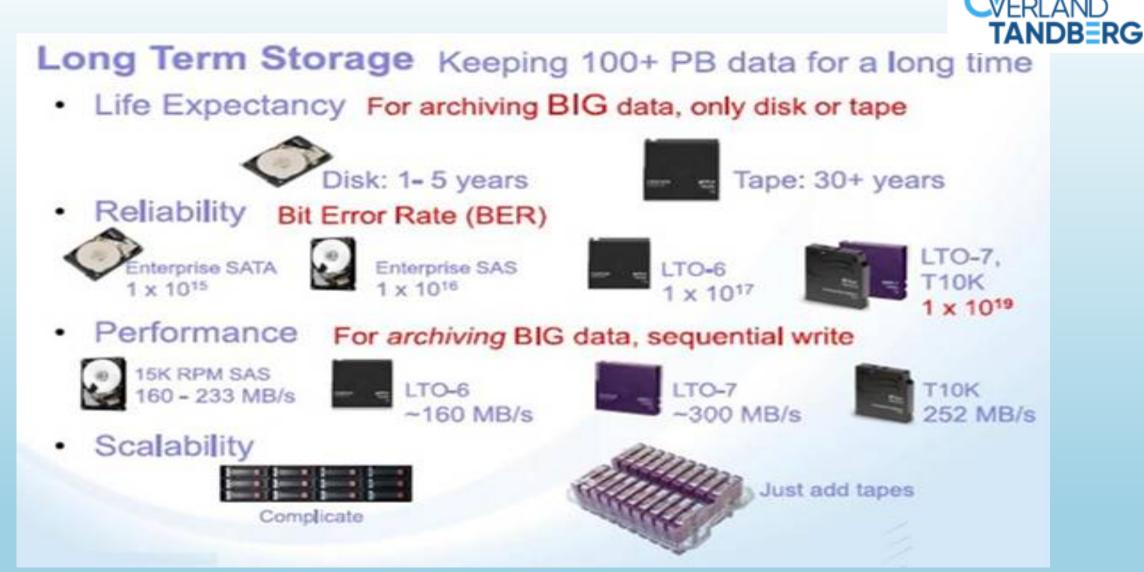




NEO XL-Series

- Scalable Tape
 Library for huge
 or und
 predictable
 Data growth
- Starting with 80Slots and 1 LTODrives
- Scalable to 560Slots and 42LTO Drives





Long Term Storage – A Comparison



Access Devices



Broadband

Home Networking

Voice

Mobile





ADSL2+	1	Port	Router
Eltek A7100)-A	Serie	s

- 1 LAN Port
- TR-069
- 6 kV surge protection

Model	Annex	Memory	Dual FW	PSU	DSL
A7100-A1	А	2/16MB	NO	6 kV	6 kV
A7100-A2	В	2/16MB	NO	6 kV	6 kV

	ADSL2+ 4 Port 300Mbps 11n Wi-Fi Router	r	Model	Annex	Memory	Dual FW	PSU	DSL
	Eltek A7600-A Series		A7600-A3	А	4/16MB	YES	10 kV	10 kV
			A7600-A4	В	4/16MB	YES	10 kV	10 kV
	– 11n 300Mbps 2T2R	 Dual Firmware image support 						

- High voltage surge protection 10 kV

- 4 Port Switch
- TR-069
- THE STATE

ADSL2+ 300Mbps 11n IAD Eltek A7621-A Series

- 11n 300Mbps 2T2R
- 1 Gigabit WAN Port
- 4 Port Switch
- 2 Voice Ports

- 1 USB 2.0 Port
- TR-069
- 6 kV surge protection

Model	Annex	Memory	Dual FW	PSU	DSL
A7621-A1	А	16/64MB	NO	6 kV	6 kV
A7621-A2	В	16/64MB	NO	6 kV	6 kV

BROADBAND ADSL





ADSL2+ 1200Mbps 11ac dual-band IAD Eltek A7921-A Series

- 11ac dual-band 1200Mbps 2T2R/2T2R
- 1 Gigabit WAN Port
- 4 Port Gigabit Switch
- 2 Voice Ports

- 1 USB 2.0 Port
- TR-069
- High voltage surge protection 10 kV

Model	Annex	Memory	Dual FW	PSU	DSL
A7921-A3	А	32/64MB	YES	10 kV	10 kV
A7921-A4	В	32/64MB	YES	10 kV	10 kV

BROADBAND VDSL



DSL

10 kV

10 kV



VDSL2 1 Port Router Eltek V7100-A Series

- 1 LAN Port
- Profile up to 30a
- TR-069

– 6 kV surge protection

Model	Annex	Memory	Dual FW	PSU	DSL
V7100-A1	А	2/16MB	NO	6 kV	6 kV
V7100-A2	В	2/16MB	NO	6 kV	6 kV

Dual FW PSU

10 kV

10 kV

YES

YES

Annex Memory

16/64MB

16/64MB

Model

V7601-A3 A

V7601-A4 B

THE	101112c	-	
		17.0	

VDSL2 4 Port 300Mbps 11n Wi-Fi Router Eltek V7600-A Series

- Dual Firmware image support
- High voltage surge protection 10 kV
- TR-069



VDSL2 300Mbps 11n IAD Eltek V7621-A Series

- 11n 300Mbps 2T2R

- 11n 300Mbps 2T2R

- 4 Port Switch

- Profile up to 30a

- 1 Gigabit WAN Port
- 4 Port Switch
- 2 Voice Ports

- Profile up to 30a
- Dual Firmware image support
- 6 kV surge protection
- _ TR-069

Model	Annex	Memory	Dual FW	PSU	DSL
V7621-A1	А	16/64MB	NO	6 kV	6 kV
V7621-A2	В	16/64MB	NO	6 kV	6 kV

BROADBAND VDSL





VDSL2 4 Port 1200Mbps 11ac dual-band Wi-Fi Router Eltek V7900-A Series

- 11ac dual-band 1200Mbps 2T2R/2T2R
- 1 Gigabit WAN Port
- 4 Port Gigabit Switch

– 4 Port Gigabit Switch

- 2 Voice Ports

- Profile up to 30a



VDSL2 4 Port 1200Mbps 11ac dual-band IAD Eltek V7921-A Series

- 11ac dual-band 1200Mbps 2T2R/2T2R
- 1 Gigabit WAN Port

Profile up to 30a

- 1 USB 2.0 Port

- TR-069

- TR-069
- 6 kV surge protection

- 6 kV surge protection

Model	Annex	Memory	Dual FW	PSU	DSL
V7900-A1	А	8/64MB	NO	6 kV	6 kV
V7900-A2	В	8/64MB	NO	6 kV	6 kV

Model	Annex	Memory	Dual FW	PSU SPU	DSL SPU
V7921-A1	А	16/64MB	NO	6 kV	6 kV
V7921-A2	В	16/64MB	NO	6 kV	6 kV

BROADBAND FIBER





ETH/Fiber Gateway 300Mbps 11n Eltek R3601-W1

- 1 SFP port (single/dual fiber)
- 1 Gigabit WAN Port
- 4 Port Gigabit Switch
- Wi-Fi 11n 300Mbps 2T2R

- 1 USB 2.0 Port
- TR-069
- 6 kV surge protection

	ETH/Fiber 300Mbps 11n IAD Eltek R36x1-W1 Series		<mark>Model</mark> R3621-W1 R3641-W1	FXS 2 4
iter	 1 SFP Port (single/dual fiber) 1 Gigabit WAN Port 	 1 USB 2.0 Port 2 Voice Ports 	R3681-W1	8
	– 4 Port Gigabit Switch – Wi-Fi 11n 300Mbps 2T2R	TR-0696 kV surge protection		



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ETH/Fiber 1200Mbps 11ac dual-band IAD Eltek R3921-W1

- 1 SFP Port (single/dual fiber)
- 1 Gigabit WAN Port
- 4 Port Gigabit Switch
- 11ac dual-band 1200Mbps 2T2R/2T2R

- 1 USB 2.0 Port
- 2 Voice Ports
- TR-069
- 6 kV surge protection



Broadband

Home Networking

Voice

Mobile

HOME NETWORKING WI-FI GATEWAY





300Mbps11n Wi-Fi Gateway Eltek R7600-A2

- 11n 300Mbps 2T2R

– TR-069

- 1 WAN Port
- 4 Port Switch



750Mbps up to 2400 Mbps 11ac dual-band Wi-Fi Gateway Eltek R7900-A Series

- 11ac dual-band

– TR-069

- 1 Gigabit WAN Port
- 4 Port Gigabit Switch

Model	Wi-Fi 11ac	Memory
R7900-A3	750 Mbps / 2T2R + 1T1R	4/32MB
R7900-A4	1200 Mbps / 2T2R + 2T2R	8/64MB
R7900-A5	2400 Mbps / 2T2R + 3T4R	8/128MB

HOME NETWORKING WI-FI REPEATER





300Mbps 11n Wi-Fi Repeater Eltek R7605-A3

- 11n 300Mbps 2T2R
- 1 LAN Port
- Repeater or AP Mode

- Wi-Fi Signal LED Indicator
- 6 kV surge protection



750Mbps 11ac dual-band Wi-Fi Repeater Eltek R7905-A1

- 11ac dual-band 750Mbps 2T2R/1T1R
- 1 LAN Port

– Repeater or AP Mode

- Wi-Fi Signal LED Indicator
- 6 kV surge protection



Broadband

Home Networking

Voice

Mobile

VOICE ATA





- 11111
- 1 VAN Port - 1 LAN Port
- 2 Voice Ports

VOICE GATEWAY





ETH/Fiber 300Mbps 11n IAD with up to 8 Voice ports Eltek R36x1-W1 Series

- 1 SFP port (single/dual fiber)
- 1 Gigabit WAN Port
- 4 Port Gigabit Switch
- 11n 300Mbps 2T2R

- TR-069
- 6 kV surge protection

ETH/Fiber 1200Mbps 11ac dual-band IAD Eltek R3921-W1

 – 1 SFP Port (single/dual fiber) 	– 1 USB 2.0 Port
– 1 Gigabit WAN Port	– 2 Voice Ports

– 4 Port Gigabit Switch

Fiber tray

- Console Port

- 11ac dual-band 1200Mbps 2T2R/2T2R - TR-069

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Fiber Gateway with	16/24/32 Voice Ports
Eltek R94xx-W1 Series	

- 1 SFP Port (single/dual fiber)
- 4 Ports LAN/WAN
- 16/24/32 Voice Ports

- 1 USB 2.0 Port

Model

R3621-W1

R3641-W1

R3681-W1

Model

R9416-W1

R9424-W1

R9432-W1

FXS

2

4

8

FXS

16

24

32



Broadband

Home Networking

Voice

Mobile

MOBILE LTE MOBILE WI-FI HOTSPOT





3G/LTE	Mobile	Route
Eltek L660	0-X Serie	S

Built-in 2G/3G/4G/LTESeveral multi-band combinations

- Cat4 up to 150Mbps download

– Up to 7 hours use

Model	4G	3 G	2G
L6600-X4	1, 3, 7, 8, 20, 38, 39, 40, 41n	1, 2, 8	2, 3, 8
L6600-X5	1, 3, 5, 8	1, 2, 5, 8	2, 3, 5, 8
L6600-X7	2, 4, 7, 17	2, 5	2, 3, 5, 8
L6600-X8	2, 3, 4, 5, 7, 28, 38	2, 5, 8	2, 3, 5, 8
L6600-X9	4	4	N/A
L6600-Xx	Other band combinations upo	n request	



LTE USB Dongle	
Eltek L5601-U Series	

- Built-in 2G/3G/4G/LTE

- Several multi-band combinations

- Cat4 up to 150Mbps download

Model	4G	3G	2G
L5601-U1	2, 4, 5	2, 5	N/A
L5601-U2	3, 7, 8, 20	1, 2, 4, 5	N/A
L5601-U3	3, 7, 8	1, 2, 5	2, 3, 5
L5601-Ux	Other band combinations upo	n request	

MOBILE LTE INDOOR ROUTER





LTE Wi-Fi Indoor Router 300Mbps 11n Eltek L3301-E1

- Built-in 4G
- Several multi-band combinations
- Cat4 up to 150Mbps download
- 2 LAN Ports

- 11n 300Mbps 2T2R
- 1 USB Port
- TR-069

LTE VoIP Wi-Fi Indoor Router 300Mbps 11 Eltek L3311-E Series	n	Model L3311-E3 L3311-E4	 3G N/A N/A	2G N/A N/A	VoIP SIP SIP
 Built-in 4G Several multi-band combinations 	 – 11n 300Mbps 2T2R – 1 Voice Port 	L3311-E6 L3311-Ex	 N/A	N/A	SIP
 Cat4 up to 150Mbps download 	– 1 USB Port				
– 2 LAN Ports	– TR-069				



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3G/LTE VoIP Wi-Fi Indoor Router 300Mbps 11n Eltek L3630-W Series

- Built-in 2G/3G/4G
- Several multi-band combinations
- Cat4 up to 150Mbps download
- 4 Port Switch

- 11n 300Mbps 2T2R
- 1 Voice Port
- TR-069

Model **4G** 3G 2G VolP L3630-W1 N/A 1, 2, 5 2, 3, 5, 8 SIP/CS L3630-W2 2, 4 1, 2, 4 ,5 N/A SIP/VoLTE L3630-W3 1, 3, 7, 20, 38 1, 2, 4, 5 N/A SIP/VoLTE L3630-W4 41, 42 N/A N/A SIP L3630-Wx Other band combinations upon request

Model	4G	3 G	2 G
L3301-E1	1, 3, 7, 8, 20	N/A	N/A

MOBILE LTE OUTDOOR ROUTER





LTE Wi-Fi Outdoor Router 300Mbps 11n Eltek L3315-E Series

- Built-in 4G Band 41/42
- Cat4 up to 150Mbps download
- 2 LAN Ports
- 11n 300Mbps 2T2R

- 1 Voice Port
- 1 USB Port
- TR-069

 Model
 4G
 3G
 2G
 VolP

 L3315-E2
 42
 N/A
 N/A
 SIP

 L3315-E6
 41, 42
 N/A
 N/A
 SIP

 L3315-Ex
 Other band combinations upon request

- Telco projects are a complex set of processes, that can have a huge impact on a telecom business. This is why service providers need a partner, who will not only deliver high-quality Hardware &software, but will take responsibility for the whole process – from analyzing and defining precise business needs, through the translation of those needs into necessary modifications, up to rolling out the project and providing high level post-sales services.
- Astramatix complements its offer of proprietary, pre-integrated packages with a broad range of Products &services, in order to propose a fully comprehensive portfolio for communication service providers. By taking full responsibility for achieving our customer's business and technological goals in the project, we aim to be a true partner for your business and technology transformations.

Key Benefits of Product and Services

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