

- Data routing
- Hardware acceleration of data processing
- Multiprotocol Label Switching (MPLS)
- Building a secure network (NAT, Firewall)
- Intrusion Detection and Prevention System (IPS/IDS)
- Service Level Agreement (SLA)
- Filtering of network data by various criteria (including filtering by applications)
- Organization of secure network tunnels between company branches
- Remote connection of employees to an office
- Internet channel management and bandwidth allocation within an office using QoS
- Organization of backup connection (wired or via 3G/LTE modem)
- Subscriber termination and bandwidth limitation BRAS (IPoE)

REV-FW-15, REV-FW-30 are service routers designed for connection of small and middle-sized offices in enterprise networks. The firewall and router functions ensure security with various Internet connection options. The device supports advanced routing, WAN organization and network security functions.

The key elements of the series are hardware-accelerated data processing. Optimal distribution of data processing functions among the device parts maximizes performance.



REV-FW-15



REV-FW-30

Technical features

	REV-FW-15	REV-FW-30
Interfaces		
Ethernet 10/100/1000BASE-T (LAN/WAN)	4	4
Ethernet 1000BASE-X SFP (LAN/WAN)	2	—
10GBASE-R/1000BASE-X (SFP+/SFP)	—	2
Serial (RS-232)	—	—
Console RS-232 (RJ-45)	1	1
FXS	—	—
USB 2.0	2	1
USB 3.0	—	1
microSD card slot	—	1

Technical features (continued)

	REV-FW-15	REV-FW-30
	Performance	
Firewall/routing (1518B frames)	1.5 Gbps; 123.1k pps	7.7 Gbps; 634.7k pps
Firewall/routing (IMIX) ¹	698.5 Mbps; 127k pps	3.5 Gbps; 639.2k pps
L2 switching (1518B frames)	1.9 Gbps; 154.1k pps	17.5 Gbps; 1444k pps
IPsec VPN (1456B frames)	267.5 Mbps; 23k pps	884 Mbps; 75.9k pps
IPsec (IMIX) ²	139 Mbps; 26k pps	492.2 Mbps; 92.3k pps
1 IPsec tunnel (1456B frames)	128.3 Mbps; 11k pps	470.7 Mbps; 40.4k pps
1 IPsec tunnel (IMIX)	65.3 Mbps; 12.2k pps	269.8 Mbps; 50.4k pps
IPS/IDS 10k rules	39.5 Mbps; 8k pps	336.3 Mbps; 67.7k pps
MPLS L2VPN switching (IMIX)	872 Mbps; 159.1k pps	2.4 Gbps; 440k pps
MPLS L3VPN switching (IMIX)	453.2 Mbps; 82.9k pps	951.6 Mbps; 174.2k pps

 For firmware version 1.24.

¹Traffic format (number per second : size of each frame) - 8:74; 5:512; 7:1518.

²Traffic format (number per second : size of each frame) - 8:74; 5:512; 7:1456.

Technical features (continued)

	REV-FW-15	REV-FW-30
Number of CPU by role		
Control CPU		
Balancing CPU	1	–
Service CPU	2–3	1–3
Switching		
Interfaces	bridge – 50 sub – 64 QinQ – 64	bridge – 250 sub – 1024 QinQ – 1024
LLDP		
Label switching		
MPLS	LDP neighbors – 128 pseudowires – 128 pseudowire classes – 64 Ethernet over MPLS – 64	LDP neighbors – 1024 pseudowires – 1024 pseudowire classes – 64 Ethernet over MPLS – 256
System features		
Static routes	1k	11k
Maximum number of competitive sessions	300k	3.26M
VLAN	up to 4094 active VLANs in accordance with 802.1Q	
FIB size	1M	1.4M
VRF		
PBR	instances – 40 rules for all instances – 512	instances – 50 rules for all instances – 512

Technical features (continued)

	REV-FW-15	REV-FW-30
Routing		
BGP	instances – 64 networks in instance – 12 neighbors – 100 RIB – 1M	instances – 64 networks in instance – 128 neighbors – 1k RIB – 2,5M
OSFPv3	instance, neighbors in interface – 6 summaries in instance – 10 areas – 25 networks in area – 6 virtual links – 128 RIB – 30k	instance, neighbors in interface – 64 summaries in instance – 128 areas – 256 networks in area – 64 virtual links – 1024 RIB – 300k
IS-IS	instances, circuits – 6 RIB – 30k	instances, circuits – 64 RIB – 300k
RIP(ng)	neighbors – 16 summaries – 8 networks – 12 RIB – 1k	neighbors – 16 summaries – 8 networks – 128 RIB – 10k
Quality of Service (QoS)		
QoS limitations	class-maps – 50 policy-maps – 25 classes in policy-map – 76	class-maps – 256 policy-maps – 256 classes in policy-map – 768
Tunneling		
VPN tunnels	IPIP – 10 GRE – 10 Ethernet over GRE – 10 GRE SUB – 10 SoftGRE – 500 L2TPv3 – 10 LT – 128 IPsec VTI – 10	IPIP – 250 GRE – 250 Ethernet over GRE – 250 GRE SUB – 250 SoftGRE – 500 L2TPv3 – 250 LT – 128 IPsec VTI – 250
IPsec VPN tunnels	64	64

Technical features (continued)

	REV-FW-15	REV-FW-30
	Remote access	
Remote Access	L2TP tunnels (client) – 10 PPTP tunnels (client) – 10 OpenVPN tunnels (client) – 10 OpenVPN remote addresses per tunnel – 8 instance – 16 peers per instance 16 local addresses – 1 addresses per peer (address-range & obj-group) – 10k	
WireGuard tunnel, RA		
	Services	
Source NAT	ruleset – 20 rules in ruleset – 100 pool – 20	ruleset – 100 rules in ruleset – 100 pool – 100
Destination NAT	ruleset – 20 rules in ruleset – 20 pool – 20	ruleset – 100 rules in ruleset – 100 pool – 100
DHCP Server	pools – 20 pool size – 10k static address in pool – 128	pools – 100 pool size – 10k static address in pool – 128
	Security	
ACL	instances – 512 rules – 512	instances – 1533 rules – 1533
Firewall	zone – 48 zone-pair – 192 rules – 4096	zone – 128 zone-pair – 512 rules – 10k
IPS		user update servers – 32 ips-categories – 20 rules – 500
	IKE (v1/v2), IPsec (esp/ah)	
Authentication	md5, sha1, sha2-256, sha2-384, sha2-512	
Encryption	des, blowfish128, aes128, camellia128, aes128ctr (IKEv2 only), blowfish192, aes192, camellia192, 3des, aes192ctr (IKEv2 only), blowfish256, aes256, camellia256, aes256ctr (IKEv2 only)	
Diffie Hellman	Regular Groups: 1, 2, 5, 14-18. Modulo Prime Groups with Prime Order Subgroup: 22-24. NIST Elliptic Curve Groups: 19-21, 25-26. Brainpool Elliptic Curve Groups: 27-30. Elliptic Curve 25519: 31	

Physical parameters

	REV-FW-15	REV-FW-30
Physical specifications and environmental parameters		
RAM		
Flash		
Maximum power consumption	18 W	26 W
Power supply	100–264 V AC, 50–60 Hz	100–264 V AC, 50–60 Hz
Operating temperature	from 0 to +40 °C	from -10 to +45 °C
Storage temperature		
Operating humidity		
Storage humidity		
Dimensions (W × H × D)	267 × 44 × 160 mm	267 × 44 × 212 mm
Weight	1.405 kg	1.8 kg
Service life		

Features and capabilities

Switching

- Up to 4094 VLAN (802.1Q)
- Voice-VLAN
- Q-in-Q (802.1ad)
- MAC-based VLAN
- Bridge domain
- LAG/LACP (802.3ad)
- Port-security, protected port
- Jumbo frames

MPLS

- LDP
- L2VPN VPWS
- L2VPN VPLS Martini Mode, Kompella Mode
- L3VPN MP-BGP (Option A, B, C)
- L2VPN/L3VPN over GRE, DMVPN
- Transparent transmission of service protocols

Routing

BGP:

- IPv4, IPv6, VPv4, L2VPN, IPv4 label-unicast, Flow-spec
- Support for Conditional Advertisement, Route Aggregation and Local-AS mechanisms
- Support for peer-group, dynamic neighbor, as-range and Route-reflector
- Fall over based on BFD protocol and Fast Error Peer Detection
- Graceful restart
- Authentication
- Flexible redistribution from/to BGP process of other protocol routes
- Running up to 64 processes simultaneously
- ECMP
- Support for policy-based routing

OSPF(v3):

- Normal, Stub, Totally stub, NSSA, Totally NSS
- Broadcast, NBMA, Point-to-point, Point-to-multipoint, Point-to-multipoint non-broadcast
- Summarizing and filtering of route information
- Authentication
- ECMP
- Passive interface
- Flexible redistribution from/to OSPF process of other protocol routes
- Running up to 64 processes simultaneously
- Support for BFD protocol
- Auto cost calculation
- Support for policy-based routing

IS-IS:

- Broadcast, Point-to-point
- Setting the L1-/L2-levels neighboring
- Metric style: narrow, wide, transition
- Authentication
- Routing information filtering
- Flexible redistribution from/to the IS-IS process of other protocol routes
- Running up to 64 processes simultaneously
- Support for policy-based routing

RIP(ng):

- Broadcast, Multicast, Unicast modes (RIP only)
- Summarizing and filtering of route information
- Route metrics management
- Authentication
- Passive interface
- Flexible redistribution from/to the RIP process of other protocol routes
- Support for policy-based routing

Static:

- Support for BFD protocol
- Recursive search
- Route metrics management
- Selecting the option to notify the sender when traffic is blocked

Quality of Service (QoS)

- Up to 8 priority or weighted queues per port
- L2 and L3 traffic prioritization (802.1p (CoS), DSCP, IP Precedence (ToS))
- Hierarchical QoS
- Management of RED, GRED, SFQ, CBQ, WFQ, WRR queues
- Inlet and outlet labeling
- Policing, shaping

IPsec

- Policy-based and route-based modes
- Tunnel and transport modes
- Pre-shared key, public key, xauth (ikev1 only), eap (ikev2)
- Support for mobike (ikev2 only)
- Support for ike ikering authentication key sets

Remote Access

- Remote access to the corporate network via PPTP, L2TP over IPsec, OpenVPN, WireGuard
- Support for PPPoE-/PPTP-/L2TP client
- User authentication
- Connection encryption

Security

- ACL based on L2-/L3-/ L4 fields
- Zone-based Firewall in stateful and stateless modes. Rule triggering logging, counters
- Filtering by applications
- Protection against DoS/DDoS/Spoof attacks and their logging
- Intrusion detection and prevention system (IDS/IPS) and its logging¹
- Signature analysis via IPS in transit and mirrored traffic analysis modes¹
- Interaction with revival Distribution Manager to obtain licensed content — rule sets provided by Kaspersky SafeStream II²

Management and monitoring

- Support for standard and extended SNMP MIB, RMONv1
- Zabbix agent/proxy

Features and capabilities (continued)

- User authentication using local database via RADIUS, TACACS+, LDAP
- Protection against configuration errors, automatic configuration recovery
- CLI
- Syslog
- System resource usage monitoring
- Ping, monitor, traceroute (IPv4/IPv6), output packet information in console
- Firmware upgrade, configuration upload and download via TFTP, SCP, FTP, SFTP, HTTP(S)
- Support for NTP
- Netflow v5/v9/v10 (exporting of URL statistics for HTTP, host for HTTPS)
- Remote management, Telnet, SSH (IPv4/IPv6)
- LLDP, LLDP MED
- Local and remote saving of router configurations

SLA

- SLA-responder для Cisco-SLA-agent
- Revival SLA:
 - Delay (one-way/double-way)
 - Jitter (forward/backward)
 - Packet loss (forward/backward/duplex)
 - Duplicate packet detection
 - Packet delivery sequence violation detection (forward/backward/duplex)

Backup and clustering

- VRRP v2, v3
- Tracking based on VRRP- or SLA test
- VRRP v2, v3
- Tracking based on VRRP or SLA test

- VRRP parameter management
- PBR parameter management
- Administrative interface status management
- Static route activation and deactivation
- Managing AS-PATH and preference attribute in route-map
- DHCP failover for IP addresses base backup issued by the DHCP server
- Firewall failover for Firewall and NAT session backup
- MultiWAN
- Dual-Homing

Fault-tolerant cluster:

- Easy administration and integration: synchronization of configurations, time, versions, licenses; Zero Touch Provisioning (ZTP)
- Backup all connections in the cluster
- Router backup ("1+1" backup is supported in the current version)

For firmware version 1.24.

¹ Activated by a license.² Rule sets are provided by subscription. The minimum subscription period is 1 year.

Features and capabilities (continued)

Services

- DHCP client, service
- DHCP Relay Option 82
- DNS resolver
- NTP
- TFTP server
- E1/multilink, modems

VoIP¹

- Support for SIP protocol
- Internal connection switching
- Operation without SIP server
- Flexible dial plan
- Configuration profiles for ports
- Applying settings without rebooting
- Voice codecs
 - G.711 a-law, μ-law
 - G.723.1
 - G.729 (A/B)
- Fax transmission
 - T.38 UDP Real-Time Fax
 - a-law, μ-law G.711 pass-through
- Voice standards
 - VAD (Voice Activity Detection)
 - CNG (Comfort Noise Generation)
 - AEC (echo cancellation, G.165, G.168 recommendations)
- DTMF
 - DTMF signal detection and generation
 - Transmission via INBAND, RFC 2833, SIP INFO
- Value Added Services

- Call Hold
- Call Transfer
- Call Waiting
- Call Forward on Busy (CFB)
- Call Forward on No Reply (CFNR)
- Call Forward Unconditional (CFU)
- Caller ID
- Calling line identification restriction (CLIR)
- Hotline/Warmline
- Call Group
- 3-Way conference

BRAS²

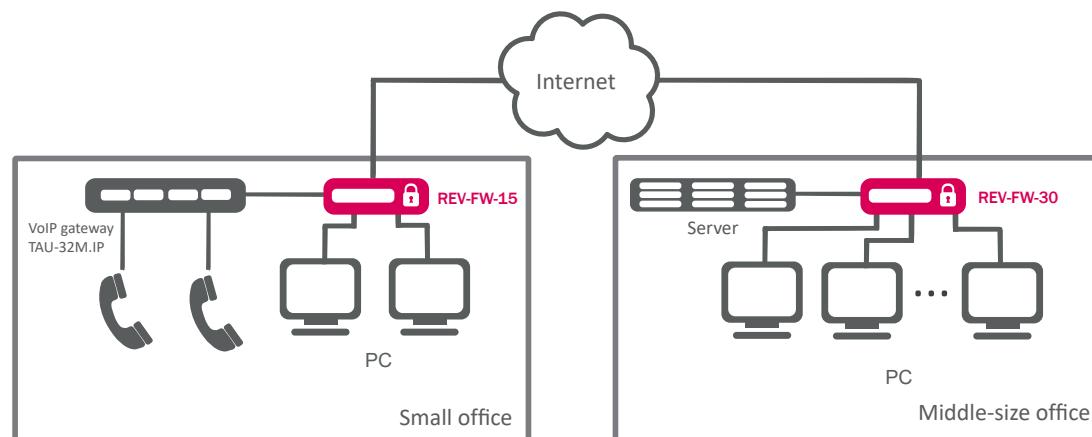
- User termination
- URL whitelists/blacklists
- Quoting by traffic volume, by session time, by network applications
- HTTP/HTTPS Proxy
- HTTP/HTTPS Redirect
- Netflow
- AAA, PCRF
- Bandwidth management by office, SSID and user sessions
- User authentication by MAC or IP address

For firmware version 1.24.

¹ For ESR-15VF.

² Activated by a license.

Use case



Ordering information

Name	Description
REV-FW-15	REV-FW-15 service router, 2 × Ethernet 1000BASE-X SFP, 4 × Ethernet 10/100/1000BASE-T, 2 × USB 2.0, 4 GB DDR4 RAM, 8 GB eMMC, 100–264 V AC.
REV-FW-30	REV-FW-30 service router, 4 × 10/100/1000BASE-T, 2 × 10GBASE-R/1000BASE-X (SFP+/SFP), 1 × Console RS-232 (RJ-45), 1 × USB 2.0, 1 × USB 3.0, 1 × microSD card slot, 4 GB DDR4 RAM, 8 GB eMMC, 100–264 V AC.

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About Revival

REVIVAL Enterprise is a leading Saudi Arabian in integrated communication and telecommunication equipment ICT with many years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.