bintec Gateways and Access Points

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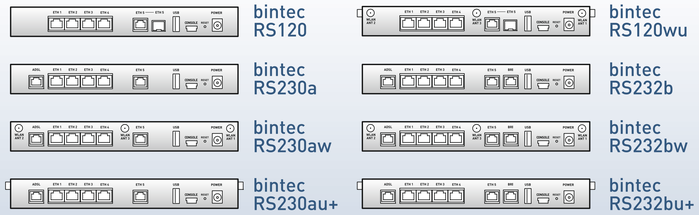
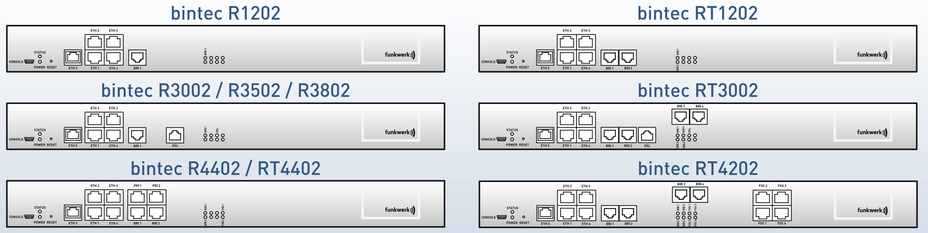
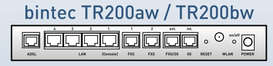
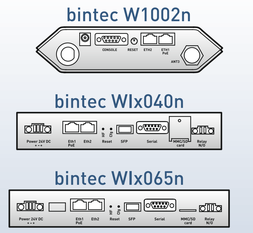








Gateways

	bintec RS120	bintec RS120wu	bintec RS230a/aw	bintec RS230au+	bintec RS232b/bw	bintec RS232bu+	bintec R1202	bintec R3002	bintec R3502	bintec R3802	bintec R4402	bintec RT1202	bintec RT3002	bintec RT4202	bintec RT4402	bintec RXL12100	bintec RXL12500	bintec TR200aw/bw
Ethernet Ports	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	5x 1000BASE-T	8x 1000BASE-T	8x 1000BASE-T	4x 100BASE-T
SF slot für optical Ethernet module	1	1	–	–	–	–	–	–	–	–	–	–	–	–	–	2	2	–
Internal xDSL modem	–	–	ADSL2+	ADSL2+	ADSL2+	ADSL2+	–	ADSL2+	VDSL	SHDSL	–	–	ADSL2+	–	–	–	–	ADSL2+
DSL variants	–	–	Annex A	Annex A	Annex B	Annex B	–	Annex A+B	Bandpl.998	8-Draht, IMA	–	–	Annex A+B	–	–	–	–	Annex A/B
WLAN	–	a/b/g/n	a/b/g/n [2]	–	a/b/g/n [2]	–	–	–	–	–	–	–	–	–	–	–	–	b/g
ISDN ports	–	–	–	–	1x S_0	1x S_0	1x S_0	1x S_0	1x S_0	1x S_0	2 S_0+2 S_{2M}	2x S_0	4x S_0	4x S_0	2 S_0+2 S_{2M}	1x S_0	1x S_0	2x S_0
Analogue ports	–	–	–	–	–	–	–	–	–	–	–	–	–	4x FXS	–	–	–	FXO+2 FXS
VoIP / Fax DSP (max. channels)	–	–	–	–	–	–	–	–	–	–	–	4	8	12	64	–	–	4
UMTS (3G+) HSxPA modem	–	HSxPA	–	HSPA+	–	HSPA+	–	–	–	–	–	–	–	–	–	–	–	–
USB port	1	1	1	1	1	1	–	–	–	–	–	–	–	–	–	1	1	–
Serial interface (console) / USB (console)	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/–	1/1	1/1	1/–
Energy-efficient switched-mode power supply	external	external	external	external	external	external	internal	internal	internal	internal	internal	internal	internal	internal	internal	internal	internal	external
19" metal housing	–	–	–	–	–	–	●	●	●	●	●	●	●	●	●	●	●	–
Software features																		
Internet protocol version 6 (IPv6)	● [3]	● [3]	● [3]	● [3]	● [3]	● [3]	● [3]	● [3]	● [3]	● [3]	● [3]	● [5]	● [5]	● [5]	● [5]	● [4]	● [4]	–
IPSec tunnels (included / maximum)	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	10/110	10/110	10/110	10/110	10/110	10/110	10/110	10/110	10/110	25 / 200	100 / 2500	5 / 5
IPSec hardware acceleration / encryption	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	optional	–
VoIP gateway (analogue / ISDN / SIP)	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	●
Fax over IP (T.38) (number of channels)	–	–	–	–	–	–	–	–	–	–	–	4	8	8+4	optional 30	–	–	4
CAPI Server virtualisation / Fax G3 (T.30)	– / –	– / –	– / –	– / –	● / –	● / –	● / –	● / –	● / –	● / –	● / –	● / 4	● / 8	● / 8	● / opt. 30	– / –	– / –	– / –
Max. number of PPTP/L2TP/GRE tunnels	5	5	5	5	5	5	110	110	110	110	110	110	110	110	110	25 (opt. 200)	100(opt.1000)	optional
Content filtering / HotSpot	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	opt./opt.	– / –	– / –	opt./opt.
WLAN Controller / max. number of APs	–	–	–	–	–	–	opt. / 72	opt. / 72	opt. / 72	opt. / 72	opt. / 72	–	–	–	–	opt. / 150	opt. / 150	–
Device redundancy (BRRP)	optional	optional	optional	optional	optional	optional	●	●	●	●	●	●	●	●	●	●	●	–
Backup (ISDN/analogue[1]/GSM[1]/UMTS[1])	– – ✓ ✓	– – ✓ ✓	– – ✓ ✓	– – ✓ ✓	– – ✓ ✓	– – ✓ ✓	✓ – ✓ –	✓ ✓ ✓ –	✓ ✓ ✓ –	✓ ✓ ✓ –	✓ ✓ ✓ –	✓ ✓ ✓ –	✓ ✓ ✓ –	✓ ✓ ✓ –	✓ ✓ ✓ –	✓ – ✓ ✓	✓ – ✓ ✓	✓ – – –
Article number	*5510000219*	*5510000220*	*R230a: 5510000221 R230aw: 5510000223*	*5510000292*	*R232b: 5510000224 R232bw: 5510000225*	*5510000293*	*5510000210*	*5510000211*	*5510000212*	*5510000213*	*5510000214*	*5510000228*	*5510000229*	*5510000231*	*5510000232*	*5510000310*	*5510000235*	*TR200aw: 5010660000 TR200bw: 5010660001*

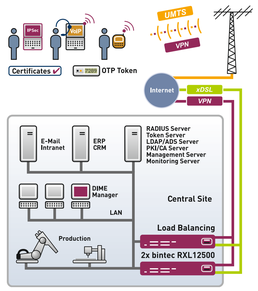
[1] External modem and cable required, not included in delivery (except for RS120wu / RS230au+ / RS232bu+) *[2] only aw resp. bw variant* *[3] Customer Preview Release available, final Release scheduled for Q4/2011* *[4] Scheduled for early 2012* *[5] Scheduled for late 2012*

Access Points

	bintec W1002n	bintec WI1040n	bintec WI2040n	bintec WI1065n	bintec WI2065n
Number of internal radio modules	1	1	2	1	2
IEEE 802.11a/b/g/n	a/b/g/n	a/b/g/n	a/b/g/n	a/b/g/n	a/b/g/n
Frequency range 2.4 / 5 / 5.8 GHz	●/●/●	●/●/●	●/●/●	●/●/●	●/●/●
Operation mode WLAN off/AP/Bridge/Client	●/●/●/●	●/●/●/●	●/●/●/●	●/●/●/●	●/●/●/●
Multi-SSID (up to 8 SSIDs per radio)	●	●	●	●	●
Security					
WPA/WPA2 Personal / Enterprise Mode	●/●	●/●	●/●	●/●	●/●
VLAN (up to 32)	●	●	●	●	●
VPN IPSec with hardware acceleration	●	●	●	●	●
Software / Management					
Roaming (AP mode) with IAPP	●	●	●	●	●
Fast Roaming for 802.1x Encryption	●	●	●	●	●
Internet dial-up (PPPoE)	●	●	●	●	●
Configuration via HTTP	●	●	●	●	●
Config. via HTTPS, SSH, Telnet, SNMP	●	●	●	●	●
DIME Manager support	●	●	●	●	●
WLAN Controller	optional	optional	optional	optional	optional
Hardware					
Ethernet ports	2x 100BASE-T	2x 100BASE-T	2x 100BASE-T	2x 100BASE-T	2x 100BASE-T
Energy-efficient switched-mode power supply	external	optional	optional	optional	optional
Power Over Ethernet acc. to IEEE 802.3af	●	●	●	●	●
Compliant to R&TTE directive 1999/5/EG	●	●	●	●	●
Medical approvement acc. to EN 60601-1-2	●	●	●	–	–
Automotive approval E1 mark	–	●	●	–	–
Protection class / usage	Indoor	IP 40	IP 40	IP 65	IP 65
Article number	*5510000165*	*5010590006*	*5010590007*	*5010590013*	*5010590014*

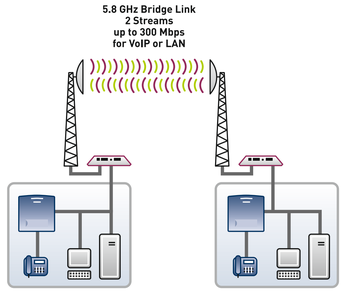
Connecting of mobile employees (VPN Client to Site)

- Support for X.509 multi-level certificates
- Enhanced security using IKE Extended Authentication together with one-time password solutions
- Excellent IPSec performance due to integrated hardware encryption accelerator
- Simple administration supporting IKE Config Mode and IPSec multi-user connections
- High availability due to central-side device redundancy
- Scalable solutions using clustering and load balancing



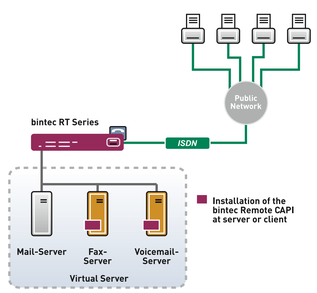
High-Performance WLAN Bridge

- LAN-to-LAN coupling with up to 75 Mbps net throughput rate
- Operation permissible with up to 4000 mW transmission power in 5 GHz band
- IEEE 802.11n over two streams in combination with dual polarisation antennas: 100% advantage in performance
- Less cable needed when mounting the access point (e.g. WI1065n) directly at the pole (minimises cable losses)



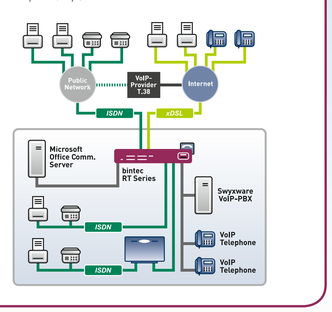
Remote CAPI for server virtualisation

- Access to ISDN ports in the gateway over IP for applications compliant to CAPI 2.0
- Dedicated DSP hardware resources for each channel
- Installation, maintenance and reconfiguration of CAPI applications possible without system reboot
- Remote CAPI client available for UNIX/Linux or Windows XP / Vista / 7 (32 and 64-bit), can be applied for embedded systems



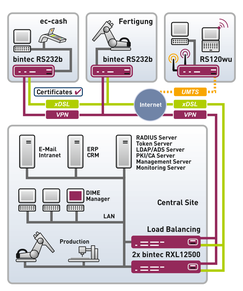
Versatile VoIP Media Gateway

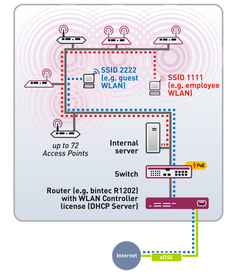
- Smooth migration of TDM-based telephone and fax installations towards VoIP/FoIP with SIP and T.38
- Simultaneous conversion of telephone calls and fax transmissions
- Direct registration of terminals at a SIP provider or VoIP PBX, SIP phones can be connected to an ISDN PBX
- Integration of the analogue G3 fax protocol (T.30) as well as Fax over IP (T.38)
- Flexible application of codecs G.711, G.726 or G.729a for ISDN voice quality in parallel to high compression rates
- Certified by Addix, Swyx, Starface and others



Secure VPN connection for subsidiaries, branch and home offices

- Enhanced security for data communication using X.509 certificates
- Excellent IPSec performance due to integrated hardware encryption accelerator
- Simple and centralized management with DIME Manager
- Resiliency and high availability using device redundancy at the central site and various backup mechanisms at the branches
- Scalable solutions with clustering and load balancing
- Support for latest broadband access technologies



bintec WLAN Controller Solution

- Configuration of a WLAN network in 30 minutes without particular WLAN skills
- Wizard-guided installation in just five steps
- Integrated HotSpot functionality (optional)
- Applicable for installations with up to 150 access points
- No dedicated hardware for up to 6 APs: license runs on a master access point.
- For 7 - 150 access points a bintec router as controller hardware (e. g. bintec R1202) is required
- Seamless roaming for voice over WLAN telephony, voice ready