



# QX IP PBXs



<b>Features</b>	<b>QX50**</b>	<b>QX200</b>	<b>QX2000</b>
<b>Physical interfaces</b>			
FXO ports	2	4	0
FXS ports	2	2	0
Ethernet RJ-45	2	2	2
SD card slot	1	1	0
Audio lines	audio line-in audio line-out	audio line-in audio line-out	0

<b>Capacity</b>			
IP phones	16 (up to 48 with additional IP phones license keys)	24 (up to 200 with additional IP phones license keys)	200 (up to 2,000 with additional IP phones license keys)
Analog phones/devices	2	2	0
Total phones (max)	50	202	2,000
Extensions (user accounts)	200	400	2,400
Concurrent calls	16	64	300

<b>Call signaling and compression standards</b>			
IP call signaling	SIP	SIP	SIP
Analog signaling	loop start	loop start	not applicable
Voice coding	G.711, G.726, G.729, iLBC	G.711, G.726, G.729, iLBC	G.711, G.726, G.729, iLBC
Fax	T.38, pass-through fax	T.38, pass-through fax	T.38, pass-through fax
Pass-through voice coding	G.722, G.722.1, TDVC	G.722, G.722.1, TDVC	G.722, G.722.1, TDVC
Pass-through video coding	H.263, H.263+, H.264	H.263, H.263+, H.264	H.263, H.263+, H.264

<b>PBX features</b>			
Unconditional call forwarding	yes*	yes*	yes*
Busy call forwarding	yes*	yes*	yes*

<b>Features</b>	<b>QX50**</b>	<b>QX200</b>	<b>QX2000</b>
<b>PBX features</b> continued			
No answer call forwarding	yes*	yes*	yes*
Unregistered/inaccessible call forwarding	yes*	yes*	yes*
Find Me/Follow Me	yes*	yes*	yes*
Hiding caller information	yes*	yes*	yes*
Incoming call blocking	yes*	yes*	yes*
Outgoing call blocking	yes*	yes*	yes*
Distinctive ringing	yes*	yes*	yes*
Call Hunting	yes*	yes*	yes*
Many Extension Ringing	yes*	yes*	yes*
Intercom	yes*	yes*	yes*
Emergency Interrupt	yes*	yes*	yes*
Auto redial	yes	yes	yes
Hold music	yes	yes	yes
Hold music upload	yes	yes	yes
Streaming hold music	yes	yes	yes
Play hold music from audio line-in	yes	yes	not applicable
Hotline Service	yes	yes	not applicable
Speed calling	yes	yes	yes
Global speed dialing	yes	yes	yes

<b>Features</b>	<b>QX50**</b>	<b>QX200</b>	<b>QX2000</b>
<b>PBX features</b> <i>continued</i>			
<b>Kick Back</b>	yes	yes	yes
<b>Call Relay</b>	yes	yes	yes
<b>Do Not Disturb</b>	yes	yes	yes
<b>Call Pickup</b>	yes	yes	yes
<b>Hot-Desking</b>	yes	yes	yes
<b>Call waiting</b>	yes	yes	yes
<b>Call Blind transfer</b>	yes	yes	yes
<b>Call transfer with consultation</b>	yes	yes	yes
<b>Call Park</b>	yes	yes	yes
<b>Call hold</b>	yes	yes	yes
<b>Three-Way Calling</b>	yes	yes	yes
<b>Paging group</b>	yes	yes	yes
<b>Voicemail</b>	yes	yes	yes
<b>Voicemail notification through email</b>	yes	yes	yes
<b>Voicemail notification through SMS</b>	yes	yes	yes
<b>Voicemail fast forward/rewind during playback</b>	yes	yes	yes
<b>Voicemail profile</b>	yes*	yes*	yes*
<b>Unified Messaging (fax and voicemail)</b>	yes	yes	yes
<b>Click to Dial (with URL or from GUI)</b>	yes	yes	yes

Features	QX50**	QX200	QX2000
<b>PBX features</b> <i>continued</i>			
T.38 fax relay	yes	yes	yes
Pass-through fax	yes	yes	yes
Auto Attendant	yes	yes	yes
Zero-Out for Auto Attendant	yes	yes	yes
Auto Attendant call back for SIP calls	yes	yes	yes
Auto Attendant call back for PSTN calls	yes	yes	not applicable
Call redirection on Auto Attendant	yes	yes	yes
Attendant ringing announcement	yes	yes	yes
Authorized phones database	yes	yes	yes
Multi-level IVR for Auto Attendant based on VoiceXML v2 and Customized Scenario Builder	yes	yes	yes
Receptionist	yes	yes	yes
DID numbers support	yes	yes	yes
Call queue	yes	yes	yes
Directory assistance	yes	yes	yes
Configurable call routing	yes	yes	yes
Failover on call routing	yes	yes	yes
Routing with class of service	yes	yes	yes
Routing with authentication	yes	yes	yes
Date/time based routing	yes	yes	yes
Routing with call duration limit	yes	yes	yes
Overall call duration limit per routing entry	yes	yes	yes

<b>Features</b>	<b>QX50**</b>	<b>QX200</b>	<b>QX2000</b>
<b>PBX features</b> <i>continued</i>			
Call history	yes	yes	yes
Automatic downloading of call history	yes	yes	yes
Call history archive	yes	yes	yes
SIP tunneling	yes	yes	yes
Call Intercept	yes	yes	yes

\*Can be configured based on caller ID per each extension

<b>Network</b>			
Stateful inspection firewall	yes	yes	yes
Policy and service filtering	yes	yes	yes
Integrated NAT	yes	yes	no
DIFFSERV/TOS	yes	yes	yes
DHCP server	yes	yes	yes
WAN DHCP client	yes	yes	no
STUN/NAT traversal	yes	yes	yes
VPN	yes	yes	no
VLAN	yes	yes	yes
TLS	yes	yes	yes
SRTP	yes	yes	yes
SNTP	yes	yes	yes
SMTP	yes	yes	yes
SNMP	yes	yes	yes
IDS	yes	yes	no

Features	QX50**	QX200	QX2000
<b>Network</b> continued			
SIP IDS	yes	yes	yes
PPPoE	yes	yes	no
DNS server	yes	yes	no
DYNDNS support	yes	yes	no

<b>Management</b>			
HTTP/HTTPS access to GUI (with admin, local admin and extension privileges)	yes	yes	yes
Local admin	yes	yes	yes
Password control	yes	yes	yes
Multi-language support	yes	yes	yes
IP phones Plug-and-Play	yes	yes	yes
IP phone auto-configuration	yes	yes	yes
Configuring IP phone's programmable keys with a PBX	yes	yes	yes
Radius Client	yes	yes	yes
Network capture	yes	yes	yes
Call capture	yes	yes	yes
Remote testing	yes	yes	yes
System configuration automatic backup and download	yes	yes	yes
Legible configuration	yes	yes	yes
Configuration download/restore	yes	yes	yes
IDS logs	yes	yes	yes

<b>Features</b>	<b>QX50**</b>	<b>QX200</b>	<b>QX2000</b>
<b>Management</b> <i>continued</i>			
System logs	yes	yes	yes
System event notification via SMS/email	yes	yes	yes
System security diagnostics and audit	yes	yes	yes
System status	yes	yes	yes
Automatic firmware update	yes	yes	yes

<b>Licensable Features (available with key)</b>			
Audio Conferencing	yes	yes	yes
Video Conferencing	yes	yes	yes
Automatic Call Distribution (ACD)	yes	yes	yes
Call Recording	yes	yes	yes
Redundancy	yes	yes	yes
Barge-In	yes	yes	yes
3PCC	yes	yes	yes
Auto Dialer application support	yes	yes	yes
Mobile Toggling support for iQall	yes	yes	yes
DCC application support	yes	yes	yes

\*\* The QXISDN4+ activation license is available for purchase on the QXISDN4. This will allow the QXISDN4 Gateway to support 16 IP phones and associated telephony features similar to the QX50. This product does not support the Audio In, Audio Out or SD card slot. All the applicable QX50 feature licenses can be purchased and activated on the QXISDN4 Gateway once the QXISDN4+ license has been installed. Once the QXISDN4+ has been activated, the Gateway will be an IP PBX and can not be reversed.



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