

Claro Family 20 Technical Specifications

	Claro Family 20 Analog (FXS)	Claro Family 20 Analog (FXO)	Claro Family 20 Digital (T1)	Claro Family 20 Digital (E1)
Maximum Voice Channels	4,8,16	4,8	23,46	30,60
Telephony Interface				
Connection type	FXS	FXO	T1 PRI	E1 PRI
End-to-end DTMF	✓	✓	✓	✓
En-block & overlap phone			✓	✓
Numbering sending support				
Signaling Protocols	Loop Start	Loop Start	Nortel DMS-100 National ISDN-2 NTT, KDD, QSIG (basic call) Hong Kong Tel AT&T 5ESS, AT&T 4ESS	Euro ISDN VN6 1TR6 QSIG (basic call)
Line impedance	600 ohm	600 ohm, 900 ohm complex	100 ohm	CEPT 120 ohm
Connector type	RJ-11	RJ-11	RJ-45	RJ-45

VoIP Specifications

IP Telephony Protocol Support	H.323 v4 SIP v2 Dynamic selection per call
IP Transport	RTP/RTCP
Voice Encoding	G.711 (A-law, μ -law) G.723.1 G.729AB G.726/32 NetCoder®
Voice Quality	IP TOS Diff Serv Adaptive, dynamic jitter buffer Line Echo Cancellation ITU G.168 Multi-level error correction Bad frame interpolation Comfort noise generation (CNG) Voice activity detection (VAD)/Silence Suppression
Fax Relay	T.38 real-time fax protocol
LAN Interface	10/100 Base-T Ethernet auto sensing RJ-45 connector (IEEE 802.3)
NAT traversal	Supported
Multi Path Switching	Supported



IP Gear

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Configuration and Management

Browser-based configuration and monitoring application

Disconnect Signal Analyzer (analog)

SNMP support

Call details records (CDRs)

RS-232 ports for maintenance

Security

SSH™ encryption during remote diagnostics and version updates

Authentication with IVR/internal tables, PIN, Caller ID

Embedded firewall

Voice and signaling AES encryption

Power

Input power 100-240 VAC, 50/60Hz

Power consumption 30 Watts Maximum

Environments

Operating temperature 0-40°C (32-104°F)

Storage temperature -40-75°C (-40-167°F)

Operating humidity 10-90% non-condensing

Regulatory

Emissions EN55022:98, EN6100:3, 47CFRP15, CES-003:97

Immunity EN55024:98

Safety EN60950, UL 60950, CSA 22.2 950

Telecommunications FCC part 68

Mechanical (Analog)

Dimensions (WxHxD) 43.7cm x 4.16cm x 25.4cm

(1U) (17.2" x 1.64" x 10")

Weight 1.8 kg (4 lbs)

Mechanical (E1/T1 PRI) (Digital)

Dimensions (WxHxD) 43.7cm x 4.16cm x 33cm

(1U) (17.2" x 1.64" x 13")

Weight 2.7 kg (6 lbs)

Claro Ordering

Product ID Claro Family 20 Analog

Claro 30-S4 FXS-4port

Claro 30-S8 FXS-8port

Claro 20-S16 FXS-16port

Claro 30-X4 FXO-4port

Claro 30-X8 FXO-8port

Claro 20-X16 FXO-16port

Product ID Claro Family 20 Digital

Claro 20-E1-30 E1 PRI, 30 VoIP Ch.

Claro 20-E2-60 2xE1 PRI, 60 VoIP Ch.

Claro 20-T1-24 T1 PRI, 23 VoIP Ch.

Claro 20-T2-48 2xT1 PRI, 46 VoIP Ch.



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