



**ELGATO Communications is a European company specialized on development and manufacturing of telecommunication equipment**

**We offer:**

- Multichannel GSM/3G-gateways (E1/PRI, SIP, H.323. 4-32 channels, 19" rack-mountable, height 1U & 4U)
- SIM-Server
- SIM-Bank (200 SIM cards)
- 4/8-channel GSM/3G-card ISA/PCI series (100% Linux/Asterisk compatible)
- GPS/GSM alarm/tracking device
- Power GSM-switch (with 6 power outlets for 220 V, on/off control by SMS)

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## Multichannel GSM Gateway ELGATO G20



# Technical specification

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<b>PRODUCT NAME:</b>	Multichannel GSM-gateway ELGATO G20
<b>CONSTRUCTION</b>	19" rack-mountable metal box with passive ventilation, 5 slots for radio-channels extension board (4 or 8 channel board)
<b>INTERFACES/PROTOCOLS</b>	
<b><i>PRI/E1 (optional)</i></b>	
E1 trunk card	Available with one or two E1 trunk on board. 30 PCM channels, Traffic 2 Mbps Standard G.703, G.704 ITU-T
Line code	HDB3; A-Law encoding, Master/Slave
PRI ISDN details	EDSS1 (Q.931), support DTMF. Connection via RJ45 connector
Impedance	120 Ohm standard impedance
<b>GSM</b>	
GSM channels	4/20 channels (step 4)
Network types	100% compatible with EU and US GSM networks (900/1800/1900 MHz) and with Brazil and Japan networks. WCDMA (3G) supported (option).
GSM engine	QUECTEL M10
Transmitter power	2 W (1 W)
SIM card	Small plug-in, 3V
Antenna connector	SMA (female) Impedance 50 Ω
Mobile networks card:	Channel card equipped with 4 GSM (900/1800/1900 MHz) or 4 WCDMA/UMTS/3G (option) modules per board. 1 SIM card per each module or unlimited SIM cards per channel with external SIM-bank.
<b><i>VoIP (optional)</i></b>	
Voice signalling	SIP
Number of voice channels	4/20 channels
Codecs	G.711 PCM at 64 kbps, G.729, G.723, G.726, DTMF recognition
<b>Equipment</b>	
<b>Processor card:</b>	One Ethernet 10/100-Base T port, Two USB-ports: 1st port – external Flash-memory, 2 <sup>nd</sup> port– for WiFi or 3G-modem (option). One COM(RS 232) port, one PRI port (option)
<b>External antenna splitter for 8 channels (optional)</b>	
Input-output insertion loss	8–15 db
Input connector	SMA (female) Impedance 50 Ω
Output connector	SMA (female), impedance 50 Ω
<b>Antenna</b>	
Directed	High gain YAGI connected by coaxial cable, length:10m or longer (optional)
Discreet	Small discreet antennas with magnet base
<b>MAINS</b>	
Power supply	External power unit 12–19 V, DC, 4.5 A.
Local control	LED indication
Remote control	TCP/IP (Telnet protocol): SSH via internal interface IP/Ethernet: 10/100 Base-T, RJ-45
<b>OTHERS</b>	
Dimensions	490 x 50 x 220 mm
Weight	est.5 kg (depending on number of channel-boards)
Operating temperature	10–50 °C
Relative humidity	Max 95 % at 40 °C
Recommended	Air condition, UPS, grounding

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