

TECHNICOLOR CGA2121

DOCSIS 3.0 WIRELESS GIGABIT-CLASS CABLE GATEWAY MIT VOICE-PORTS

Das CGA2121 ist ein EuroDOCSIS/DOCSIS 3.0 Kabel-Gateway und präsentiert die nächste Generation von Hochgeschwindigkeits-Datenservices. Diese neue Kabellösung bietet neben bis zu 8 gebündelten Upstream-Kanälen auch 24 gebündelte Downstream-Kanäle für kabelgebundene Downloadgeschwindigkeiten bis zu 1,2 Gbps. Netzbetreiber können somit neben schnellerem Breitbandzugang auch IPTV-Services anbieten.



- 24x8 Channel Bonding
- Max. 1335 Mbps Downstream- und 245 Mbps Upstream-Datenrate
- 4x GE LAN-Ports
- Dual Band WLAN:
 - IEEE 802.11n 2,4 GHz (2x2)
 - IEEE 802.11ac 5 GHz (3x3)
- WLAN Hotspot-Funktion
- 2x FXS Ports für Telefon und Fax
- Dual Mode DOCSIS/EuroDOCSIS
- Abwärts kompatibel mit (Euro)DOCSIS 2.0 (und älter)
- Full Band Capture Tuner
- Eingebauter HF Spektrum-Analyzer
- PacketCable/EuroPacketCable 1.5 und 2.0 konform
- 1x USB 2.0 Master Port
- Seamless Media Sharing (UPnP™ AV)
- MPEG2 over IP encapsulation solution
- Fortschrittliche Sicherheits-Funktionen
- TR-069 Remote Management
- IPv4 und IPv6 DS-Lite Support
- Entwickelt um neueste ECO Standards zu erfüllen

NETZGERÄT

- 12 V DC
- 2,5 A
- 30 W



PACKUNGSINHALT

- A** Technicolor CGA 2121
- B** Netzteil
- C** Ethernet-Kabel



GERÄTEVORDERSEITE

- A** POWER - LED
- B** DS / US (Downstream / Upstream) – LED
- C** WLAN – LED
- D** ETHERNET 1-4 - LED
- E** TELEFON 1 - LED
- F** TELEFON 2 - LED
- G** WPS-Taste
- H** WLAN-Taste



GERÄTERÜCKSEITE

- A** ON / OFF Schalter
- B** DC Buchse
- C** HF-Kabel Anschluss
- D** 4 ETHERNET Ports
- E** USB PORT
- F** RESET Taste
- G** 2 FXS POTS Ports



SPEZIFIKATIONEN

HARDWARE	
Interfaces WAN	1 F-type connector, external threaded
Interfaces LAN	4-port autosensing 10/100/1000 Base-T Ethernet LAN switch IEEE 802.11n 2.4 GHz IEEE 802.11ac 5 GHz 2 FXS POTS ports 1 USB 2.0 master port
Buttons & indicators	6 status LEDs WiFi on/off button (with backlit LED) WPS button (with backlit LED) Reset button (recessed) Power button
Power input	DC jack
Power supply	12 VDC external PSU
AC voltage	100 - 240 VAC (switched mode power supply)
Operating temperature	0° - 40° C (32° - 104° F)
Operating humidity	20 % - 90 % non-condensing
Storage temperature	-20° - 70° C (-4° - 158° F)
CERTIFICATIONS	
Data	EuroDOCSIS 3.0 compliant
Voice	EuroPacketCable 1.5 & 2.0 compliant
CMTS interoperability	Any qualified EuroDOCSIS / DOCSIS CMTS
RF DOWNSTREAM	
Downstream modulation	64, 256 QAM
Downstream frequency range	108 - 1002 MHz
Number of downstream channels	Up to 24 bonded
Maximum downstream rates	1335 Mbps (theoretical, 24 x 55.62 Mbps)
Capture windows	1.2 GHz full band capture
Channel bandwidth	8 MHz
Input signal level range	-15 dBmV - +15 dBmV
Input impedance	75 Ohm

RF UPSTREAM	
Upstream modulation QPSK	8 - 128 QAM
Upstream frequency range	5 - 85 MHz
Number of upstream channels	Up to 8 bonded
Maximum upstream rates	245 Mbps (theoretical, 8 x 30.72 Mbps)
Channel bandwidth	200, 400, 800 kHz, 1.6, 3.2 and 6.4 MHz
Output signal level	Up to +61 dBmV
Output impedance	75 Ohm
Upstream Diagnostics Analyzer	
WIFI	
Full dual band concurrent WiFi access points, WiFi certified®	<ul style="list-style-type: none"> • 2.4 GHz (2x2) IEEE 802.11n AP • 5 GHz (3x3) IEEE 802.11ac AP with IEEE 802.11ac compliant transmit beamforming
WiFi Protected Setup (WPS™)	
WiFi security levels	<ul style="list-style-type: none"> • WPA2™-Enterprise / WPA™-Enterprise • WPA2™-Personal / WPA™-Personal • IEEE 802.1x port-based authentication with RADIUS client
WiFi Multimedia (WMM®) and WMM-Power Save	
Up to 8 BSSIDs (virtual AP) per radio interface	
WiFi guest hotspots capabilities	
2x2 MIMO 2.4 GHz WiFi features	SGi STBC 20/40 MHz coexistence
3x3 MIMO 5 GHz WiFi features	SGi STBC 20/40/80 MHz mode
Dynamic rate switching for optimal wireless performance	
Manual/auto radio channel selection	
VOICE AND TELEPHONY	
Voice technologies	Voice over IP (VoIP)
Voice signalling	EuroPacketCable™ NCS Network-based call signalling protocol (PKT-SP-EC-MGCP) RFC 3261 SIP RFC 2805 MGCP
Audio codecs	ITU-T G.711 PCM A-law, PCM μ-law, ITU-T G.728, G.729, G.729a, G.729e Wideband ITU-T G.722.1 iLBC, BV16
Multi-line phone support	2 phone lines 3-party conference calls Supports two complex voice codecs simultaneously
Fax relay	T.38
DTMF tone relay	RFC 2833
Caller ID	Type I and Type II
CLASS features	Basic and extended CLASS features
Voice Activity Detection (VAD)	
Comfort Noise Generation (CNG)	
Echo cancellation	G.165 G.168 up to 16 ms
Packet tone	DTMF generation Call progress generation Custom tone generation
Call discrimination	Fax and modem detection
Telephony interface capabilities	Loopback and on-demand diagnostics
Modems	
RFC 2833 DMTF tone relay	Up to V.90 (38.5 kbps)
REN	Enabled / disabled via SNMP
Pulse dialing	5 REN per device
RTP layer	DTMF/pulse tones Pulse/DTMF tones conversion
RTCP statistics collection	RFC 1889 RFC 1890

MANAGEMENT	
User-friendly GUI via HTTP	
Web-based user interface management and administration	
Command Line Interface (CLI)	Telnet SSH v2
TR-069 CPE WAN Management Protocol (CWMP)	
SNMP	SNMP v1, SNMP v2, SNMP v3
Operation, Administration & Maintenance (OAM) (optional)	ITU-T Y.1731
Software upgrade	via WAN RF connection only
Zero-touch autoprovisioning	
SERVICES	
3G/LTE/4G mobile fall-back WAN connection (through USB adapter)	
Wireless hotspot	SoftGRE
Parental control	URL-based website filtering Time-based access control
Content sharing	Server Message Block (SMB) Samba file server PnP A/V™ media server and control point
NETWORKING	
Routing modes	Transparent bridging Routed modes
Multiple client support	32 (bridged mode)
Network protocols	Dual stack IP (IPv4, IPv6) TCP, UDP ARP, ICMP, DHCP TFTP, SNMP, HTTP, Telnet
Discovery protocols	Protocol filtering Ethernet and IP
IPV6 NETWORKING	
IPv4 / IPv6 dual IP stack	
Transitioning	DS-Lite
QUALITY OF SERVICE	
Class of services	32 downstream IDs 32 upstream service flows
Traffic prioritization	DOCSIS 1.0, 1.1 (management of service flows)
Wireless QoS	WMM (BE, BK, VI, VO access categories) queuing and scheduling
SECURITY	
Baseline Privacy Interface Plus (BPI+)	
Stateful Packet Inspection Firewall (SPIF)	
Customizable firewall security levels	
Intrusion detection and prevention	
DeMilitarized Zone (DMZ)	
Multilevel access policy	
Security and service segregation per SSID	
ECO DESIGN	
WMM-Power Save	
PACKAGE CONTENTS	
CGA2121	
Power supply unit	
Ethernet cable	
Quick Setup leaflet(s) (optional)	
Safety Instructions & Regulatory Information booklet	