TÜBİTAK
BİLGEM

AGC-G3

GIGABIT IP CRYPTO DEVICE

AGC-G3 is a device that ensures the security of traffic between IP-based local area networks communicating over untrusted networks at the network layer. Positioned between the local area network and the router, the device creates a security gateway.

YOUR SECURITY, SPEED AND CONTROL!

AGC-G3

SECURE AND FAST COMMUNICATION BETWEEN LOCAL NETWORKS

Data Confidentiality: AGC-G3 provides secure communication by preventing unauthorized access to data.

Authentication: The device performs identity authentication for parties communicating on the network.

Data Integrity: Guarantees that data is not altered or corrupted during transmission

TECHNICAL SPECIFICATIONS	
Application	IP/Ethernet communication over untrusted networks Simultaneous data transmission to multiple points Compatible communication with AGC-G, AGC-T and AGC-GX
Communication Protocols	IPv4/IPv6 dual stack Easy integration into IP networks ToS (Type of Service) bypass for QoS (Quality of Service)
Performance	900 Mbps unidirectional (Combined 1.8 Gbps) speed Support for 2000 automatic tunnels simultaneously
Security	"SECRET" level data confidentiality COMSEC approval Hardware-based red-black separation Hardware random number generator Key protection during power outages Tamper protection with or without power Emergency erase button Local and remote emergency erase Smart-card based Crypto Ignition Key(CIK)
Security Protocols	IPSEC: IP Security Architecture ESP: Encapsulating Security Payload IKE: Internet Key Exchange (v1/v2)
Algorithms	Approved encryption and authentication algorithm set at "SECRET" confidentiality level EC-DH key exchange, EC-DSA signing Hardware-based implementation
Access Security	Two-factor authentiction: smart card and password Different user authorization levels (administrator, viewer, etc.)
Key Management	Offline key loading with Smart Card Online key distribution via Key Management Center (KMC) Automatic session key derivation with IKE protocol X509 Certificate-based operation
Network Interfaces	10/100/1000 Mbps/10GbE Gigabit Ethernet (Auto sense, auto crossover) RJ45 Cooper or Fiber Ethernet Interface Support
User Interface	Audible warnings and status LEDs Local Management via serial console User-friendly menus, guided help support
Device Management	Local and remote management Event, alarm and activity logs SNMP-based remote monitoring and management Local and remote (Management Center) configuration backup/restore Local and remote (Management Center) software update Active/Passive Redundant Operation with VRRP
Power Supply	40-72 VDC or 150/264 VAC, 47..63 Hz Power consumption < 200 W
Environmental Conditions	Operating temperature: 0 ˚C - +45 ˚C Storage temperature: -20 ˚C to +65 ˚C Relative humidity: 90% at +40 ˚C temperature
Physical Specifications	Weight < 10 kg Dimensions: 443mm (W) x 411mm (D) x 50mm (H) Desktop or 19" rack mountable
EMI/EMC	MIL-STD-461E/F
TEMPEST	TEMPEST Test Procedures Manual and SDIP-27/2 (Level A)

AGC G3 EN-20260430

BİLGEM
NATIONAL RESEARCH INSTITUTE OF ELECTRONICS AND CRYPTOLOGY

T: +90 262 648 1000 • F: +90 262 648 1100 • E: bilgem@tubitak.gov.tr
W: bilgem.tubitak.gov.tr • A: PK.: 74, 41470, Gebze, Kocaeli TÜRKİYE