KAREL AG102 MILITARY GATEWAY

THE NEW GENERATION MILITARY GATEWAY AG-102 IS DEVELOPED WITH WATERPROOF AND RUGGEDIZED BODY TO MEET THE HARSH TACTICAL ENVIRONMENT. AG102 IS USED TO CONVERT THE DATA GETTING FROM ANALOG, CO AND ISDN/PRI INTERFACES TO ETHERNET/ IP DATA FOR IP NETWORKS. SIMILARLY IP PACKAGES COMING FROM THE ETHERNET NETWORKS WILL BE CONVERTED TO THE ANALOG, CO AND ISDN/PRI INTERFACES. AG102 ESTABLISHES A CONNECTION USING THE SIP TRUNK AND IS REGISTERED TOTHE MAIN VOICE SERVER.

TECHNICAL SPECIFICATION OF THE SYSTEM

Functional Specifications

- Ability to control and monitor all device parameters via SNMP.
- All device parameters can be managed via web.
- IPV4 and IPV6 support.
- The device is equipped with 7 (seven) FXS and (one) FXO port
- The device is developed with the ability to connect to an analog phone device, a secure phone MİLSEC-1A and a secure/ insecure fax machine.
- The device is equipped with 1 (one) ISDN PRI interface.
- The device is equipped with 2 (two) Ethernet interfaces, one for data (carrier interface) other for management.
- The Ethernet interface supports a speed of 10/100 Mbit.
- The ports installed on the device can be independently configured and managed.
- Interface of the device for control and monitoring enables to select the language mode (Turkish and English).
- The device's audio interfaces support audio codex such as G.711, G.723, G.726 and G.729.
- The analog audio interface of the device operates in compatibility with the encrypted audio communication device MILSEC-1A.
- The device has a self-test function (CIT tests) to detect malfunctions and monitor the unit functions of the device.

Electrical Specifications

- The device operates with the supply voltages of 90-250 VAC 47-63 Hz and 20-36 VDC.
- The maximum power consumption of the gateway device is 50 watts.
- Communication lines are designed to ensure robust communication in jitter/wander conditions.

Interface Specifications

- The ISDN PRI interface installed on the device supports the Q.931 and Q.SIG marking protocol.
- Ability to connect to the interface of the remote device via a standard web browser.

Mechanical Specifications

- The device has 1U height and weighs 2,700 kg.
- Can be installed in the 19” rack cabinet.

Environmental Conditions	Standard	Remarks
Storage Temperature	MIL-STD-810G	In accordance with the high and low temperature test methods available in Method of MIL-STD-810G standard Method 501.5 Procedure I and Method 502.5 Procedure I, it provides (-40) °C - (+70) °C high and low temperature storage requirements.
Operating Temperature	MIL-STD-810G	In accordance with the high and low temperature test methods available in MIL-STD-810G Method 501.5 Procedure II and Method 502.5 Procedure II it provides (-30) ° C - (+55) ° C high and low temperature operating requirements
Temperature Shock	MIL-STD-810G	It provides instant temperature variations requirement in accordance with MIL-STD-810G Method 503.5 Procedure I-B
Humidity	MIL-STD-810G	I accordance with the humidity test method in MIL-STD-810G Method 507.5 Procedure II (Aggravated) it provides 95% (ninety-five) humidity requirement at room temperature.
Vibration	MIL-STD-810G	It provides the vibration requirement in MIL-STD-810G Method 514.6 Procedure I (transport and operating conditions for vessels and land vehicles) and Method 528 to Procedure I and II (ship vibration)
Shock	MIL-STD-810G MIL-S-901D	It provides the shock requirement in accordance with MIL-STD-810G Method 516.6 Procedure I (for vessels and land vehicles) and MIL-S-901D (Shock Grade: B, Equipment class: II, Shock Type Test: Type A, Test Category: Lightweight Shock). (Functional Test for Ground Equipment, 40 g/15-23 ms)
Altitude/Low Pressure	MIL-STD-810G	It provides operation requirements of 3000 (three thousand) m and storage requirements of 4500 (four thousand five hundred) m in accordance with low pressure (altitude) testing in MIL-STD-810G standard Method 500.5 Process I and II
EMI/EMC	MIL-STD-461F	It is compatible with the requirements of MIL-STD-461F CE101, CE102, CS101, CS106, CS114, CS115, CS116, RE101, RE102, RS101, RS103
Acoustic	MIL-STD-1472G	It does not generate more than 65 dB (A) of noise in accordance with MIL-STD-1472G.
Rain	MIL-STD-810G	It provides impermeability according to Method 506.5 Procedure I.
Dust	MIL-STD-810G	In accordance with Method 510.5 Procedure I and Procedure II, it meets the dust requirement

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