

DG-A6

8 and 16-port RS232/422/485 terminal servers with multiple LAN access



» Overview

DG-A6 series terminal server is an industrial designed 1U 19" rack-mount device. It provides full network access ability with its independent 2 giga Ethernet ports and 4 10/100M Ethernet ports. Each Ethernet port can be mapped freely to access indicated serial port. Furthermore, multiple network clients can transparently concurrent access specified serial port for redundancy.

It is important to support back-up power supply in industrial environment. DG-A6 series terminal server can also support dual AC power inputs by internally using independent power modules for extra reliability.

» Key Features

- High performance of 800MHz processor
- 512M DDR3 RAM, 1G Flash
- 2 x 10/100/1000M Ethernet ports
- 4 x 10/100M Ethernet ports
- Built-in RTC and buzzer
- Built-in temperature sensor
- 1U, 19" inch, fan-less design
- Support redundant LAN access to COM
- Support dual AC power inputs
- Support extreme operating temperature of -40°C to 80°C

» Product Specifications

> Hardware Specifications

-Performance

CPU : Cortex-A8 800MHz processor

RAM : 512MB DDR3 SDRAM

Flash : 1GB Flash

-Ethernet Interface

LAN: 2 x 10/100/1000M 8-pin RJ45, 4 x 10/100M 8-pin RJ45

Magnetic Isolation: 1.5KV built-in

-Serial Interface & Signal

Number of Ports: 8 or 16

RS-485-2w: D+, D-, GND

RS-485-4w(RS-422): Tx+, Tx-, Rx+, Rx-, GND

RS-232: TxD, RxD, GND

Serial Line Protection: 15KV ESD for all signal

-LED

System: PWR, RUN

Serial: TXD, RXD

LAN: ACT, LINK(RJ45)

-RTC

RTC: RTC with backup-battery

-Physical Characteristics

Housing: SECC(1mm)

Weight: 6kg

Dimension: 440×300×45mm

Installation: 19" rack mounting

-Environmental Limits

Operating temperature: -40°C ~ 80°C

Operating humidity: 5 ~ 95% RH

Storage temperature: -40°C ~ 85°C

Vibration resistance: 1G@IEC-68-2-6,sine wave, 5~500 Hz,1 Oct./min,1 hr/axis

Shock resistance: 5G@IEC-68-2-27, half-sine wave,30 ms

-Power Requirements

Input voltage: 85~264VAC/77~300VDC or 9~36VDC

Power Consumption: < 6 W

-Standards and Certifications

EMI:

EN 55022 Class A

EMS:

EN 55024

EN 61000-4-2(ESD) Level3

EN 61000-4-4(EFT) Level4

EN 61000-4-5(Surge) Level3

-Reliability

Alert: Built-in buzzer

Temperature: Built-in temperature sensor

Watchdog: WDT monitoring

MTBF > 50000 hours

-Warranty

Warranty: 5 years

>Software Specifications

-Operation System

Embedded Linux Kernel 3.12

-Network Protocols

TCP, UDP, IPv4, ICMP, ARP, HTTP, DHCP, NTP, NFS, Telnet, FTP, TFTP, PPP, PPPoE

-Security Protocols

SSH, PAP, CHAP

-Watchdog

Programmable by Linux API

-WEB Configuration

YES

» Mechanical Drawing

» Ordering Information

DGW-A6T-6T8D-L5: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422, 9~36 VDC PS, 1U 19" rack mount

DGW-A6T-6T8D-L5-L5: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422, 9~36 VDC dual PS, 1U 19" rack mount

DGW-A6T-6T16D-L5: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422+8 x 2w-RS485, 9~36 VDC PS, 1U 19" rack mount

DGW-A6T-6T16D-L5-L5: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422+8 x 2w-RS485, 9~36 VDC dual PS, 1U 19" rack mount

DGW-A6T-6T8D-HV: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422, 85 ~ 264 VAC/77 ~ 300 VDC PS, 1U 19" rack mount

DGW-A6T-6T8D-HV-HV: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422, 85~ 264 VAC/77 ~ 300 VDC dual PS, 1U 19" rack mount

DGW-A6T-6T16D-HV: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422+8 x 2w-RS485, 85 ~ 264 VAC/77 ~ 300 VDC PS, 1U 19" rack mount

DGW-A6T-6T16D-HV-HV: A8 800Mhz, 512M DDR3, 1G Flash, 6 x Eth, 8 x RS232/RS485/RS422+8 x 2w-RS485, 85 ~ 264 VAC/77 ~ 300 VDC dual PS, 1U 19" rack mount

Package list

1 DG-A6 series terminal server

19" rack mounting suit

Ethernet cable: RJ45 to RJ45 cable,100cm

AC power cord (if AC model is selected)

Document and software CD

Warranty card