

DG-A6 Series

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



- 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

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.

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
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Physical Characteristics

Housing	SECC(1mm)
Weight	6kg
Dimension	440x300x45mm
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	<ul style="list-style-type: none"> ▼ 1G@IEC-68-2-6,sine wave, 5~500 Hz,1 Oct./min,1 hr/axis
Shock resistance	<ul style="list-style-type: none"> ▼ 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 Period	5 years
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see <http://www.kyland.com/support/zhibaozhengce.html>

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

Ordering Informtaion

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