

RK20 / RK21 / RK22 [new]

Remote Access Industrial Routers



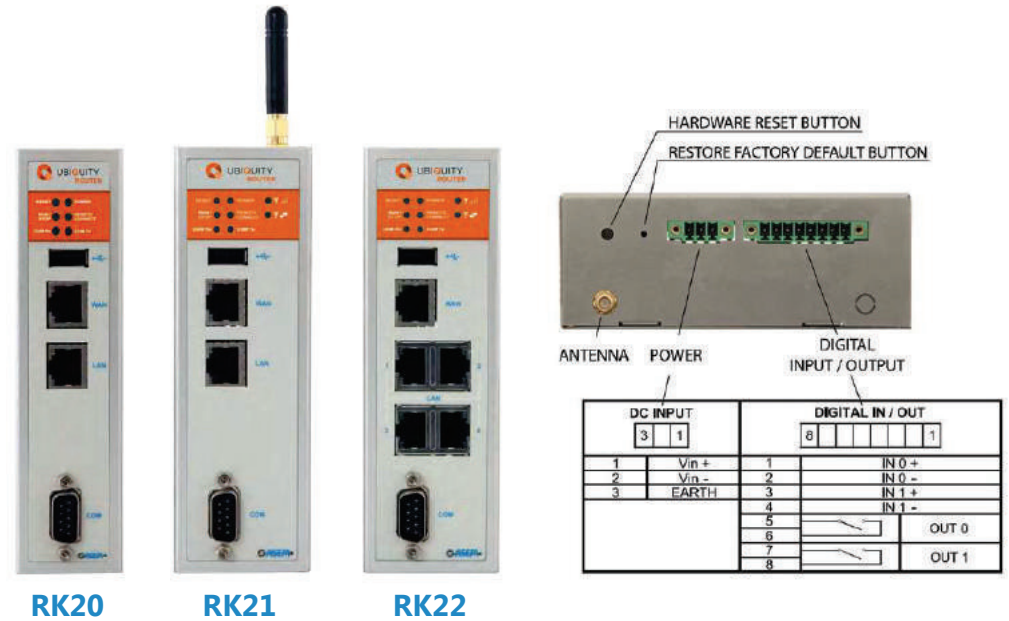
RK20 RK21 RK22

RK20, RK21 and RK22 systems and the respective extended temperature range ET versions represent a standalone book mounting solution for DIN rail or wall mounting, dedicated to remote assistance. RK20, RK21 and RK22 are based on Linux operating system and a 1 GHz ARM Cortex A7/ M4 (i.MX7) processor enclosed in an aluminium case. RK2x routers have two 10/100/1000Mbps Ethernet ports, for Internet connection and for automation devices connection, an isolated multistandard interface and one USB 2.0 port.

The systems have an isolated 9÷36 VDC power supply and include one 24 VDC digital input for the security key activation that activates the router also from remote and one 24 VDC digital input for the remote reset function. They include also a low voltage relay output to remote the "ongoing remote assistance service" signal. RK21 and RK22 integrate a built-it 2G/3G/4G(LTE) pentaband modem compatible with cellular networks worldwide. RK22 also includes a built-in 4-port Ethernet switch.

Highlights

- UBIQUITY software creates a VPN between the Control Center PC and the Router granting access to devices connected via Ethernet and Serial ports
- Debug, programming and update of the automation devices connected to the router via Ethernet and Serial interfaces
- Proprietary VPN technology designed for Industrial communication
- MPI protocol support
- Immediate setup and configuration
- Firewall friendly
- RK21 and RK22 systems can integrate a built-in 2G/3G/3G+ modem to access machines and plants without a wired Internet connection
- RK22 integrates a 4 port Ethernet switch



		RK20	RK21	RK22
CELLULAR NETWORK	Standard	-	2G/3G/4G LTE pentaband modem up to 50Mbps upload / 100Mbps download	
	Regions		Europe, China, USA	
	Antenna		1 x SMA connector	
	GPS		Optional	
	SIM		1 x SIM card socked push-push type IEEE 802.11 b/g/n (optional)	
WIFI		ASEM UBIQUITY Router Runtime		
REMOTE ASSISTANCE SW		Linux		
O.S. INSTALLED		Aluminium		
CASE	Material	DIN rail book mounting holders, Wall book mounting kit included		
	Mounting			
	Dimensions	36x138x116 mm	45x138x116 mm	
PROTECTION GRADE		IP20		
PROCESSOR		ARM Cortex A7/M4 processor i.MX7 1GHz		
SYSTEM MEMORY - RAM		1 GB DDR3L soldered		
LAN		4 GB eMMC pseudo-SLC (Solid State Disk) 8bit, file system organization		
USB		WAN Ethernet 10/100/1000 Mbps (RJ45)		LAN Ethernet 10/100/1000 Mbps (RJ45)
SERIAL		1 x USB 2.0		
DIGITAL INPUT	IN0	1 x RS232/422/485 (DB9M) isolated		
	IN1	Security key for WAN connection activation. Function managed by Control Center		
	Type	UBIQUITY Router software reset		
DIGITAL OUTPUT	OUT0	0÷24V DC, 500V isolated		
	OUT1	UBIQUITY Router WAN enabled connection signal		
	Type	Remote assistance service running signal		
BUTTONS		Output with relay 200mA@24V DC max for contact (N.O. - normally open)		
		UBIQUITY Router hardware reset		
		UBIQUITY Router factory default restore		
POWER SUPPLY INPUT		24V DC (9÷36 V DC) isolated		
OPERATING TEMPERATURE		0°C÷50°C		
		-20°C÷70°C (Extended Temperature)		
APPROVALS		CE, RED pending, cULus listed (61010) pending		