





Industrial Automation - Products & Configurations

	RK22-ET > note 1	
Basic configuration	ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • 4 ports unmanaged Ethernet switch • ASEM UBIQUITY ROUTER runtime • Extended temperature range -20° ÷ +65°C • DIN-RAIL BOOK mounting • WALL BOOK mounting • 12 months warranty	8

	RK22-ET 4G-GLOBAL > note 1	POWER [W]
Basic configuration	ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • 4 ports unmanaged Ethernet switch • 3G/4G global modem • without antenna • ASEM UBIQUITY ROUTER runtime • Extended temperature range • 20° ÷ +65°C • DIN-RAIL BOOK mounting o WALL BOOK mounting • 12 months warranty	12

	RK22-ET WiFi > note 1	POWER [W]	
	ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • 4 ports unmanaged Ethernet switch • WiFi module • without antenna • ASEM UBIQUITY ROUTER runtime • Extended temperature range 0° ÷ +60°C • DIN-RAIL BOOK mounting o WALL BOOK mounting • 12 months warranty	10	

	RK22-ET 4G-GLOBAL WiFi > note 1	POWER [W]
Basic configuration	ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • 4 ports unmanaged Ethernet switch • 3G/4G global modem • WiFi module • without antenna • ASEM UBIQUITY ROUTER runtime • Extended temperature range 0° ÷ +60°C • DIN-RAIL BOOK mounting o WALL BOOK mounting • 12 months warranty	14
REMOTE ASSISTANCE	U ■ SIQUITY ROUTER runtime	

	OPTIONS		POWER [W]
	2G/3G/4G stilo steerable antenna • RK22 direct mount or panel mount using extension cable • 10W, 50 Ohm , 1 dBi • 72mm • SMA-M	Ť	-
	2G/3G/4G wall-mount antenna with 3m cable • wall mount with 90° bracket • IP67 • 2W, 50 Ohm, 2 dBi • 250mm • SMA-M	T	-
3G / 4G ANTENNAS	2G/3G/4G outdoor antenna with 1m cable • outdoor panel mount • IP67 • 5W, 50 Ohm, 3 dBi • h48mm x Φ50mm • SMA-M		-
	2G/3G/4G antenna with magnetic base with 3m cable • panel mount • 50 Ohm • 247mm • SMA-M		-
	3m extension cable for antennas • RG58/U low loss cable • IP20 • SMA-M/F		-
CABLES > note 2	5m extension cable for antennas • RG58/U low loss cable • IP20 • SMA-M/F		-
	10m extension cable for antennas • RG58/U low loss cable • IP20 • SMA-M/F		-
WiFi ANTENNAS	Kit for two WiFi BLADE dual band steerable antennas • RK22 direct mount or panel mount using extension cable • 3W, 50 Ohm • 157mm • RP-SMA-M		-
	Kit for two WiFi STILO dual band steerable antennas • RK22 direct mount or panel mount using extension cable • 2W, 50 Ohm • 194mm • RP-SMA-M		-
	Kit for two 3m extension cables for WiFi antenna • LMR-200 low loss cable • IP20 • RP-SMA-M/F		-
WiFi CABLES >note 2	Kit for two 5m extension cables for WiFi antenna • LMR-200 low loss cable • IP20 • RP-SMA-M/F		-
	Kit for two 10m extension cables for WiFi antenna • LMR-200 low loss cable • IP20 • RP-SMA-M/F		-
		Ψ	
	Warranty extension to 18 month		-
WARRANTY EXTENSION	Warranty extension to 24 months		-
	Warranty extension to 36 months		-

NOTES

The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the USB ports. 1: Price does not include ASEM UBIQUITY DOMAIN that must be purchased one-off at the first order of a license or system that includes the UBIQUITY runtime. See pg.402

2: The efficiency of the antennas and the extension cables is dependent on the quality of the radio frequency signal present at the installation site therefore we suggest not to use more than one extension cable between the antenna and the router.





TECHNICAL SPECIFI	CATIONS	
Case		Aluminium, DIN-RAIL BOOK MOUNTING, WALL BOOK mounting kit included
Overall dimensions 8	& weight	See details on the related section
	note assistance	
Features		VPN with access to the Ethernet (LAN) subnetwork of the UBIQUITY ROUTER
		Serial port virtualization; MPI protocol not supported
		White connection from different Control Center with different VPN for each client
		Proprietary VPN technology optimized for industrial communication protocols with complete access to the Ethernet remote sub-network. Support for UDP broadcast. No need
VPN	Technology	to reconfigure remote network devices. The service computer uses real IP in the IP address space of the remote network.
	Security	
Power supply		Input voltage 9÷34V DC • Power supply section integrated on board
Motherboard		ASEM R372
Processor		ARM i.MX 7Dual multicore heterogeneous • Cortex A7 1 GHz dual core, 533 MHz system memory bus
System mermory		1GB DDR3L soldered on board
Storage memory		eMMC MLC 8GB (Solid State Drive), 8bit file system organization
Frontal access interf	aces	4 x Unmanaged Ethernet switch 10/100/1000 Mbps (R345) for LAN connection
		1 x Ethernet 10/100/1000 Mbps (RJ45) for WAN connection
		1 x USB 2.0 (Type-A / host)
		1 x RS-232/422/485 (DB9M) multiprotocol, isolated
Digital Input	INO	Security key input for WAN connection activation. Function managed by Control Center. Disabled by default.
	IN1	UBIQUITY ROUTER software reset input
	Type	0÷24V DC, 500V isolation
Digital Output		UBIQUITY ROUTER authenticated on Domain and WAN remote connection enabled signalling
5	-	Remote assistance service running
	-	Output with relay 200mA@24V DC max for contact (N.O normally open)
Buttons	.,,,,,	UBIQUITY ROUTER hardware reset
		UBIQUITY ROUTER factory default restore
Approvals		CE (EN 61326-1, EN 62311, IEC 61010-1, IEC 61010-2-201) • cULus LISTED (UL 61010) pending
Protection grade		
Environmental specif	fications	Operating temperature: -20° ÷ +65°C • 0° ÷ +60°C with WiFi Storage temperature: -40° ÷ +85°C • humidity: 80% (non-condensing)
Standard warranty		12 months • Warranty management by ASEM headquarters
RK22 WiFi		
Module WiFi	Туре	Half Mini PCIe module
	Standard	IEEE 802.11a/b/g/n • 2.400÷2.4835GHz / 5.15÷5.85GHz • Data rate 802.11b: 11Mbps / 802.11a/g: 54Mbps / 802.11n: 300Mbps
	Features	client / access point
	Security	WPA2
	Rx Sensitivity	802.11a: -73dBm / 802.11q: -74dBm / 802.11n(2,4GHz): -72dBm@HT20, -69dBm@HT40 / 802.11n(5GHz): -69dBm@HT20, -68dBm@HT40
		1 x RP-SMA-F connector • no antenna included
RK22 4G - GLOBAL		
Modem 4G/LTE	Type	2G/3G/4G LTE CAT 4 Multi-band modem up to 50Mbps upload / 150Mbps download
nodelli iojere	Bands	EDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66 + TDD-LTE: B34/B38/B39/B40/B41 • UMTS/HSDPA/HSPA+: B1/B2/B4/B5/B6/B8/B19 • GSM/OPRS/EDGE: 850/900/1800/1900 MHz
	Approvala	Ger CE
	Approvals	1 x SMA-F connector • no antenna included
L	Antenna	1 X SMAY CONNECCO • NO BIRENIA INCLUEU
MODEM AND NETWO	RK COVERAGE	
Note: please cons installation area.	ider that the	following information are given for guidance only. Mobile networks coverage and supported frequencies have to be verified with local providers in the

RK22 4G GLOBAL		
✓	Europe	
✓	North/Latin America	(7
✓	Asia	36
✓	Africa&Oceania	
✓	Europe	
✓	North America	ш
✓	Latin America	4G/LTE
✓	Asia	4
✓	Africa&Oceania	





