





Industrial Automation - Products & Configurations

	Troducts & configurations	
	RK21-ET 4G-GLOBAL > note 1	POWER [W]
Basic configuration	ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • 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	10

RK21-ET WiFi > note 1	POWER [W]
ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • <b>WiFi module</b> • without antenna • ASEM UBIQUITY ROUTER runtime • Extended temperature range 0° ÷ +60°C • DIN-RAIL BOOK mounting • UALL BOOK mounting • 12 months warranty	7

		RK21-ET 4G-GLOBAL WiFi > note 1	POWER [W]
Basic configu		ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • 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	11
REMOTE ASSISTANCE	ASEM UBIQ	UITY ROUTER runtime	

	OPTIONS	J	POWER [W]
	2G/3G/4G stilo steerable antenna • RK21 direct mount or panel mount using extension cable • 10W, 50 Ohm , 1 dBi • 72mm • SMA-M	•	-
	2G/3G/4G wall-mount antenna with 3m cable • wall mount with 90° bracket • IP67 • 2W, 50 Ohm, 2 dBi • 250mm • SMA-M		-
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		1
	Kit for two WiFi BLADE dual band steerable antennas • RK21 direct mount or panel mount using extension cable • 3W, 50 Ohm • 157mm • RP-SMA-M		-
WiFi ANTENNAS	Kit for two WiFi STILO dual band steerable antennas • RK21 direct mount or panel mount using extension cable • 2W, 50 Ohm • 194mm • RP-SMA-M		T
	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		1
		Ψ	
	Warranty extension to 18 month		-
WARRANTY EXTENSION	Warranty extension to 24 months		-
	Warranty extension to 36 months		-

- 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.

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TECHNICAL SPECIFIC	CATIONS	
Case		Aluminium, DIN-RAIL BOOK MOUNTING, WALL BOOK mounting kit included
Overall dimensions &	weight	See details on the related section
Software Rem	ote assistance	ASEM UBIQUITY ROUTER runtime
Features		VPN with access to the Ethernet (LAN) subnetwork of the UBIQUITY ROUTER
		Serial port virtualization; MPI protocol not supported
		Multiple connection from different Control Center with different VPN for each client
VPN	Technology	Proprietary VPN technology optimized for industrial communication protocols with complete access to the Ethernet remote sub-network. Support for UDP broadcast. No need to reconfigure remote network devices. The service computer uses real IP in the IP address space of the remote network.
	Security	Secure and protected communication by TLS encrypted connections
Power supply		Input voltage 9÷34V DC • Power supply section integrated on board
Motherboard		ASEM R371
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 interfa	nces	1 x Ethernet 10/100/1000 Mbps (R345) for LAN connection
		1 x Ethernet 10/100/1000 Mbps (R345) for WAN connection
		1 x USB 2.0 (Type-A / host)
		1 x RS-232/422(485 (DB9M) multiprotocol, isolated
Digital Input	IN0	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	OUT0	UBIQUITY ROUTER authenticated on Domain and WAN remote connection enabled signalling
	OUT1	Remote assistance service running
	Type	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)
Protection grade		1P20
Environmental specifi	ications	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
RK21 WiFi		
Module WiFi		Half Mini PCIe module
		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
		client / access point
	Security Dv. Consitivity	WPA2 802.11a: -73dBm / 802.11q: -74dBm / 802.11n(2,4GHz): -72dBm@HT20, -69dBm@HT40 / 802.11n(5GHz): -69dBm@HT20, -68dBm@HT40
		002.118: -7300HT / 002.119: -7400HT / 002.111(2,44H2): -7200HWH120, -0300HWH140 / 002.111(30H2): -0300HWH120, -0300HWH140 12 x RP-SMA-F connector - no antenna included
RK21 4G - GLOBAL	, arccririo	2 A TO STATE CONTROLLOR THE ANGUAGE
Modem 4G	Type	modem 2G/3G/4G LTE CAT 4 Multi-Band up to 50Mbps upload / 150Mbps download
	Standard	FDD-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/GPRS/EDGE: 850/900/1800/1900 MHz
	Approvals	
	Antenna	1 x SMA-F connector • no antenna included

MODEM AND NETWORK COVERAGE

Note: please consider that the following information are given for guidance only. Mobile networks coverage and supported frequencies have to be verified with local providers in the installation area.

RK21 4G GLOBAL		
✓	Europe	
✓	North/Latin America	Ø
✓	Asia	36
✓	Africa&Oceania	
✓	Europe	
✓	North America	ш
✓	Latin America	4G/LTE
✓	Asia	4
✓	Africa&Oceania	







