



Industrial Automation - Products & Configurations

RK10 BASIC SYSTEM > note 1		POWER [W]
Basic configuration	ARM Cortex A8, i.MX535, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 2GB eMMC • Windows Embedded Compact 7 Pro • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK mounting o WALL BOOK mounting • 12 months warranty	6

RK11 BASIC SYSTEM 3G > note 1		POWER [W]
Basic configuration	ARM Cortex A8, i.MX535, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC • 2G/3G/3G+ modem • without antenna • Windows Embedded Compact 7 Pro • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty	10

RK11 BASIC SYSTEM 4G/LTE > note 1		POWER [W]
Basic configuration	ARM Cortex A8, i.MX535, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC • 2G/3G/4G modem • without antenna • Windows Embedded Compact 7 Pro • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty	10

RK11 BASIC SYSTEM 4G/LTE-AM > note 1		POWER [W]
Basic configuration	ARM Cortex A8, i.MX535, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC • 2G/3G/4G modem "AM" version • without antenna • Windows Embedded Compact 7 Pro • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty	10

RK10-ET BASIC SYSTEM > note 1		POWER [W]
Basic configuration	ARM Cortex A8 i.MX537, 800 MHz • 512 MB RAM • 256 MB NAND-Flash • 4GB eMMC • Extended Temperature range • Windows Embedded Compact 7 Pro • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty	6

RK11-ET 3G BASIC SYSTEM > note 1		POWER [W]
Basic configuration	ARM Cortex A8, 800 MHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC • 2G/3G/3G+ modem • without antenna • Extended Temperature range • Windows Embedded Compact 7 Pro • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty	10

REMOTE ASSISTANCE	ASEM UBIQUITY Router runtime	-
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OPTIONS only for RK11 / RK11-ET

		POWER [W]
3G ANTENNAS	2G/3G/3G+ stilo antenna • RK11 direct mount or panel mount using extention cable • 20W, 50 Ohms • 48mm • SMA-M	-
	2G/3G/3G+ magnetic antenna with 2mt cable • panel mount • 50W, 50 Ohm • 116mm Ø29,5mm • SMA-M	-
3G / 4G ANTENNAS	2G/3G/4G stilo steerable antenna • RK11 direct mount or panel mount using extention cable • 10W, 50 Ohm • 72mm • SMA-M	-
	2G/3G/4G wall-mount antenna with 3mt cable • wall mount with 90° bracket • IP67 • 2W, 50 Ohm • 250mm • SMA-M	-
	2G/3G/4G outdoor antenna with 1mt cable • outdoor panel mount • IP67 • 5W, 50 Ohm • h48mm x Ø50mm • SMA-M	-
CABLES >note 2	3mt extension cable for antennas • RG58/U low loss cable • IP20 • SMA-M/F	-
	5mt extension cable for antennas • RG58/U low loss cable • IP20 • SMA-M/F	-
	10mt extension cable for antennas • RG58/U low loss cable • IP20 • SMA-M/F	-

COMMON OPTIONS

WARRANTY EXTENSION	Warranty extension to 18 months on basic system and its variants	
	Warranty extension to 24 months on basic system and its variants	
	Warranty extension to 36 months on basic system and its variants	

NOTES	
For power consumption calculation we recommend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the 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.222	
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 SPECIFICATIONS	
Case	DIN-RAIL BOOK MOUNTING, WALL BOOK mounting kit included
Overall dimensions & weight	See details on the related section
Operating System	Microsoft Windows Embedded Compact 7 Pro license with Microsoft olographic sticker
Software	Remote assistance: ASEM UBIQUITY ROUTER runtime Utility: ASEM System Manager • Backup&Restore
Features	VPN with access to the Ethernet (LAN) subnetwork of the Ubiquity Router Serial port virtualization and Ethernet-MPI gateway 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: SSL/TLS tunnel over UDP or TCP to encapsulate the VPN traffic; asymmetric cryptography and X509 certificates for session authentication, symmetric encryption for confidentiality and message authentication codes for message integrity.
Power supply	Input voltage 9÷36V DC • Power supply section integrated on board
Motherboard	ASEM R171
Processor	RK: ARM Cortex A8 • i.MX535 • 1 GHz, 400 MHz system memory bus RK-ET: ARM Cortex A8 • i.MX537 • 800 MHz, 400 MHz system memory bus
System mermory	512MB / 1GB DDR3-800
Storage memory	NAND-Flash 256MB Read-Only eMMC (Solid State Disk) 2/4GB, 8bit, file system organization
Frontal access interfaces	1 x Ethernet 100 Mbps (RJ45) for LAN connection 1 x Ethernet 10/100 Mbps (RJ45) for WAN connection 1 x USB 2.0 (Type-A / host) 1 x RS-232/422/485 (DB15M)optoisolated MPI protocol compatibile up to 187,5Kbit/s
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 optoisolation
Digital Output	OUT0: UBIQUITY Router WAN 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 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL 61010)
Protection grade	IP20
Environmental specifications	RK: Operating temperature: 0° ÷ +50°C • storage temperature: -20° ÷ +60°C • humidity: 80% (non-condensing) RK10-ET: Operating temperature: -20° ÷ +70°C • storage temperature: -30° ÷ +80°C • humidity: 80% (non-condensing) RK11-ET: Operating temperature: -20° ÷ +60°C • storage temperature: -30° ÷ +80°C • humidity: 80% (non-condensing)
Standard warranty	12 months • Warranty management by ASEM headquarters
For RK11 3G e RK11-ET 3G only	
Modem	Type: 2G/3G/3G+ EDGE/HSPA quadriband modem up to 5,76Mbps upload / 21,6Mbps download Bands: UMTS/HSPA+: B1/B2/B5 • GSM/GPRS/EDGE: 850/900/1800/1900 MHz Antenna: 1 x SMA-F connector • no antenna included
For RK11 4G/LTE only	
Modem 4G/LTE	Type: 2G/3G/4G LTE pentaband modem up to 50Mbps upload / 100Mbps download Bands: FDD-LTE: B1/B3/B7/B8/B20 • TDD-LTE: B38/B40 • UMTS/HSPA+: B1/B8 • GSM/GPRS/EDGE: 900/1800 MHz Antenna: 1 x SMA-F connector • no antenna included
Modem 4G/LTE-AM	Type: 3G/4G LTE quadriband modem up to 50Mbps upload / 100Mbps download Bands: FDD-LTE: B2/B4/B5/B17 • UMTS/HSPA+: B2/B5 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.				
		RK11 3G	RK11 4G/LTE	RK11 4G/LTE-AM
3G	Europe	✓	✓	-
	North/Latin America	✓	-	✓
	Asia	✓	✓	-
	Africa&Oceania	✓	✓	-
4G/LTE	Europe	n.a.	✓	-
	North America		-	✓
	Latin America		✓	✓
	Asia		✓	-
	Africa&Oceania		✓	-

