



Industrial Automation - Products & Configurations

RK10 BASIC SYSTEM > note 1		POWER [W]
Basic configuration	ARM Cortex A8, 1 GHz • 512 MB RAM • 256 MB NAND-Flash • 4GB eMMC • Windows Embedded Compact 7 Pro • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty	6
RK11 BASIC SYSTEM > note 1		POWER [W]
Basic configuration	ARM Cortex A8, 1 GHz • 512 MB 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
PROCESSOR	ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board	
RK10-ET BASIC SYSTEM > note 1		POWER [W]
Basic configuration	ARM Cortex A8, 800 MHz • 512 MB RAM • 256 MB NAND-Flash • 2GB 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 BASIC SYSTEM > note 1		POWER [W]
Basic configuration	ARM Cortex A8, 800 MHz • 512 MB 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
PROCESSOR	ARM Cortex A8 processor • Freescale i.MX537 • 800 MHz • 400Mhz memory bus • Soldered on board	
REMOTE ASSISTANCE	ASEM UBIQUITY Router runtime	-
OPTIONS only for RK11 / RK11-ET		POWER [W]
ANTENNAS	Pentaband stilo antenna • RK11 direct mount or panel mount using extention cable • 20W, 0dBi, 50 Ohms • 48mm • SMA-M	-
	Pentaband wall-mount antenna with 3mt cable • wall mount with 90° bracket • IP67 • 50W, 2,5dBi, 50 Ohms • 248mm • SMA-M	-
	Pentaband outdoor antenna with 1mt cable • outdoor panel mount • IP67 • 5W, 3,2dBi, 50 Ohms • 48x50mm • 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		POWER [W]
MPI	Adapter cable from DB15F to DB9F (MPI/PPI)	-
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.205		
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	ASEM UBIQUITY ROUTER runtime	
Remote assistance	ASEM System Manager • Backup&Restore	
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 • Freescale i.MX535 • 1 GHz, 400 MHz system memory bus
	RK-ET	ARM Cortex A8 • Freescale i.MX537 • 800 MHz, 400 MHz system memory bus
System memory	512MB 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 compatible up to 187,5Kbit/s
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 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)	
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	
Only for RK11 / RK11-ET		
Modem	Type	2G/3G/3G+ EDGE/HSPA quadriband modem up to 5,76Mbps upload / 14,4Mbps download • 850MHz-2100MHz
	Antenna	1 x SMA-F connector • no antenna or cable included

