



**Industrial Automation - Products & Configurations**

**RK10 BASIC SYSTEM**  
 > note 1

Basic configuration	ARM Cortex A8, 1 GHz • 512 MB RAM • 256 MB NAND-Flash • 4GB eMMC • Windows WEC7 • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty
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**RK11 BASIC SYSTEM**  
 > note 1

Basic configuration	ARM Cortex A8, 1 GHz • 512 MB RAM • 256 MB NAND-Flash • 4GB eMMC • 2G/3G/3G+ modem • without antenna • Windows WEC7 • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty
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<b>PROCESSOR</b>	ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board
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**RK10-ET BASIC SYSTEM**  
 > note 1

Basic configuration	ARM Cortex A8, 800 Mhz • 512 MB RAM • 256 MB NAND-Flash • 2GB eMMC • Extended Temperature range • Windows WEC7 • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty
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**RK11-ET BASIC SYSTEM**  
 > note 1

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 WEC7 • ASEM UBIQUITY ROUTER runtime • ASEM System Manager • DIN-RAIL BOOK or WALL BOOK mounting • 12 months warranty
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<b>PROCESSOR</b>	ARM Cortex A8 processor • Freescale i.MX537 • 800 Mhz • 400Mhz memory bus • Soldered on board
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<b>REMOTE ASSISTANCE</b>	ASEM UBIQUITY Router runtime
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**OPTIONS only for RK11 / RK11-ET**

<b>ANTENNAS</b>	Pentaband stilo antenna • RK11 direct mount or panel mount using extension cable • 20W, 0dBi, 50 Ohms • 48mm • SMA-M
	Pentaband wall-mount antenna with <b>3mt</b> cable • wall mount with 90° bracket • IP67 • 50W, 2,5dBi, 50 Ohms • 248mm • SMA-M
	Pentaband outdoor antenna with <b>1mt</b> cable • outdoor panel mount • IP67 • 5W, 3,2dBi, 50 Ohms • 48x50mm • SMA-M

<b>CABLES</b> >note 2	<b>3mt</b> extension cable for stilo antenna mounted on panel • RG58/U low loss cable • IP20 • SMA-M/F
	<b>5mt</b> extension cable for stilo antenna mounted on panel • RG58/U low loss cable • IP20 • SMA-M/F
	<b>10mt</b> extension cable for stilo antenna mounted on panel • RG58/U low loss cable • IP20 • SMA-M/F

**COMMON OPTIONS**

<b>MPI</b>	Adapter cable from DB15F to DB9F (MPI/PPI)
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<b>WARRANTY EXTENSION</b>	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

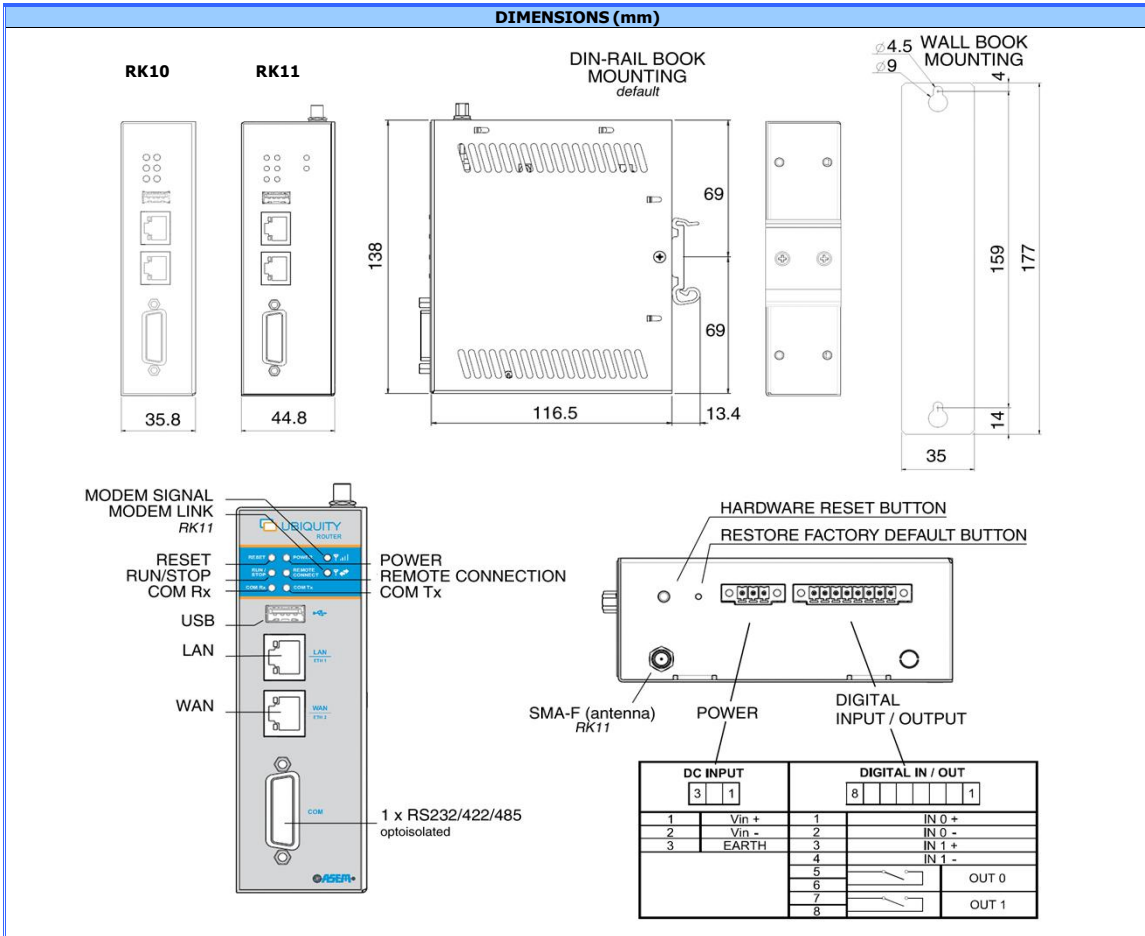
<b>NOTES</b>	<p><b>1:</b> Price does not include ASEM UBIQUITY DOMAIN that must be purchased one-off at the first order of a license or system that includes the UBIQUITY runtime. See pg.162</p> <p><b>2:</b> The efficiency of the antennas and the extension cables is dependent on the quality of the radio frequency signal present at the installation site therefore we suggest not to use more than one extension cable between the antenna and the router.</p>
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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 • 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
<b>Only for RK11 / RK11-ET</b>	
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



**DIMENSIONS (mm)**



**RK11 / RK11-ET INSTALLATION**

