



Industrial Automation - Products & Configurations

RK20-ET BASIC SYSTEM > note 1		POWER [W]
RK20-ET	ARM i.MX 7Dual, Cortex A7 1 GHz dual core • 1 GB RAM • 8GB eMMC • ASEM UBIQUITY ROUTER runtime • Extended temperature range -20° ÷ +70°C • DIN-RAIL BOOK mounting o WALL BOOK mounting • 12 months warranty	6

REMOTE ASSISTANCE	ASEM UBIQUITY Router runtime	-
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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	
1:	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. 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

TECHNICAL SPECIFICATIONS	
Case	Aluminium, DIN-RAIL BOOK MOUNTING, WALL BOOK mounting kit included
Overall dimensions & weight	See details on the related section
Software Remote 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 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÷34V DC • Isolated • 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 Disk), 8bit file system organization
Frontal access interfaces	1 x Ethernet 10/100/1000 Mbps (RJ45) 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.
	INI 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 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL 61010) pending
Protection grade	IP20
Environmental specifications	Operating temperature: -20° ÷ +70°C •
	Storage temperature: -30° ÷ +80°C • humidity: 80% (non-condensing)
Standard warranty	12 months • Warranty management by ASEM headquarters


DIMENSIONS (mm)
